

## **Dataset Integrity Check for Adult-to-Adult Living Donor Transplantation Cohort Study (A2ALL)**

As a partial check of the integrity of the A2ALL datasets archived in the NIDDK data repository, a set of tabulations was performed to verify that published results from the A2ALL study can be reproduced using the archived datasets. A small number of analyses were performed to duplicate published results for A2ALL subjects and a supplemental sample of liver transplant cases extracted by A2ALL investigators from the Scientific Registry of Transplant Recipients (SRTR). A report on these data was published in 2008 by the American Journal of Transplantation [1]. The results of this integrity check are described below.

**Purpose.** The intent of this dataset integrity check is to provide confidence that the dataset distributed by the NIDDK repository is a true copy of the study data. Our intent is not to assess the integrity of the statistical analyses reported by study investigators. As with all statistical analyses of complex datasets, complete replication of a set of statistical results should not be expected on a first (or second) exercise in secondary analysis. This occurs for a number of reasons including differences in the handling of missing data, restrictions on cases included in samples for a particular analysis, software coding used to define complex variables, etc. Experience suggests that most discrepancies can ordinarily be resolved by consultation with the study DCC, however this process is labor-intensive for both DCC and Repository staff. It is thus not our policy to resolve every discrepancy that is observed in a dataset integrity check. Thus, we do not attempt to resolve minor or inconsequential discrepancies with published results or discrepancies that involve complex analyses unless staff of the NIDDK Repository suspect that the observed discrepancy suggests that the dataset may have been corrupted in storage, transmission, or processing by repository staff. We do, however, document in footnotes to the dataset integrity check or by highlighting in tables those instances in which our secondary analyses produced results that were not fully consistent with those reported in the target publication.

**Datasets.** The recipient dataset used for these analyses was created by merging the datasets *niddk\_cdr\_retro\_rcp.sas7bdat* and *niddk\_cdr\_retro\_rcp\_srtr.sas7bdat* received from the DCC (both with date stamps of 8-27-2010). SAS code supplied by the DCC was used to create analysis variables required to replicate the analyses in Freise et al. That SAS code is given in Appendix B; it was executed by NIDDK Repository staff to generate the analysis file: *Recip\_all.sas7bdat* which was stored on the Repository server (Date Stamp: October 18, 2010). This SAS dataset was converted to STATA format using Stat/TRANSFER and output as a STATA data file: *STAN\_recip\_all.dta* (date stamp: October 18, 2010). The A2ALL donor dataset is *niddk\_cdr\_retro\_dnr.sas7bdat* (date stamp 8-27-2010). This donor dataset was output to the STATA data file *niddk\_cdr\_retro\_dnr.dta* (date stamp: October 19, 2010)..

**Sample Date Matching.** The Friese et al. article specifies that “Entry of a recipient into the A2ALL Retrospective Cohort Study required the identification of a potential donor who completed a history and physical examination during the period January 1, 1998 to February 28, 2003 at one of the nine U.S. transplant centers (p. 2570).”

Sample matching was performed using the variable *don\_hp\_date* which identified the date for donor H&P.<sup>1</sup> This date ranged from February 11, 1998 to October 11, 2004. Cases were excluded if this date occurred after February 28, 2003.<sup>2</sup> This excluded 8 cases from the database leaving a total sample size of 799.

**Groups.** The variables *LDLT* and *DDLT* were used to identify recipients who received livers from living vs. dead donors. In the date-matched sample, we identified: 383 respondents who received livers from living donors, 216 respondents who received livers from dead donors, and 200 who were missing data on these variables — presumably because these respondents had not received liver transplants. This was confirmed with two exceptions<sup>3</sup> by the observation that “date of transplant” (*gout\_txp*) was missing when both *LDLT* and *DDLT* were both coded as zero, i.e., not living nor dead donor.

**Comparison of Sample Sizes.** The Freise et al. article identifies 384 recipients of livers from a living donor and 216 recipients of livers from dead donors. Our sample size calculation matches the published N for dead donor transplants (216) and is one short of the N for living donor transplants (383 vs. 384). This minor discrepancy may be due to an anomaly in the dataset provided to the Repository or due to a minor divergence in the implementation of our date inclusion algorithms.

**Comparison of Characteristics of Patients.** Table 2 of the Freise et al. article selected characteristics of the LDLT and DDLT patients who *received* transplants. The archived data were analyzed to produce the same characteristics reported by Freise et al. Our **Table 1a** compares the published results to those obtained from our analysis of the archived data for transplant recipients. It will be seen from **Table 1a** that overall calculations from the archived data closely replicate the published results with the several small discrepancies (highlighted in yellow and green). There is, however, one more substantial divergence. The published cold ischemia time for DDLT patients was 441 minutes (sd = 215) while our calculation from the supplied dataset was 473 minutes (sd = 181). While this discrepancy is non-trivial, we do not think it raises questions about the integrity of the dataset.

**Table 1b** compares results for published characteristics of A2ALL *donors* and those calculated from the archived dataset. It will be seen from Table 1b that there are only minor observed discrepancies between published and calculated characteristics of A2ALL donors.

**Comparison of Transplant Complications.** Freise et al. article reports the frequency distributions of the number of complications for three groups of patients: (1) LDLT patients whose transplants were among the first 20 done by their transplantation center; (2) LDLT patients whose transplants were the 21<sup>st</sup> or later for the transplant center; and (3) patients who received transplants from deceased donors (DDLT). As can be seen from our **Table 2**, there are only a small number of minor discrepancies between published and calculated number of transplant complications.

The Freise et al. article also reports the nature of the complications for this same three groups. As can be seen from our Table 3 — with a few exceptions — there are only a small number of minor discrepancies. These exceptions involve: the percentage of transplants that experienced (1) incisional hernias in the

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<sup>1</sup> We presumed this to be Health and Physical exam, and we queried the DCC. We have not had a response to this question.

<sup>2</sup>That is rawdate > 15764 (days elapsed since January 1, 1960).

<sup>3</sup>Respondents 2331 and 4168 (*resp\_id*) were coded as 0 for both *LDLT* and *DDLT* but they had a valid date of liver transplant (*gout\_txp*).

LDLT-21+ (8.3 vs 11.5%) and DDLT (8.3 vs. 10.2%) groups, and (2) pulmonary bacterial infections (8.8 vs. 10.7%) and the summary measures for “all infections” and “all bacterial infections.”

**Conclusion.** Analysis of A2ALL data archived at the NIDDK Repository produced results that are very (but not perfectly) consistent with the results published in 2008 by Freise et al. (1). Given the myriad potential sources of divergence in our analyses (e.g., minor variations in inclusion dates, handling of missing data, 1-case variation in sample size, etc.), I believe these results warrant confidence in the integrity of these datasets.

#### References.

1. Freise CE, Gillespie BW, Koffron AJ, Lok AS, Pruett TL, Emond JC, Fair JH, Fisher RA, Olthoff KM, Trotter JF, Ghobrial RM, Everhart JE; A2ALL Study Group. Recipient morbidity after living and deceased donor liver transplantation: findings from the A2ALL Retrospective Cohort Study. *Am J Transplant.* 2008 Dec;8(12):2569-79. Epub 2008 Oct 24.

TABLE 1a. *Recipients*: Characteristics of living donor (LDLT) and deceased donor liver transplant (DDLTL) recipients: Means and Percent Distributions. (Trivial differences highlighted in light yellow; more substantial differences are highlighted in light green; comparison to Freise et al., 2008, Table 2.)

CHARACTERISTICS	LDLT n (%) or Mean ± 1 SD				DDLTL n (%) or Mean ± 1 SD			
	Published		Calculated		Published		Calculated	
	n or Mean ± 1 SD	%	n or Mean ± 1 SD	%	n or Mean ± 1 SD	%	n or Mean ± 1 SD	%
<b>RECIPIENT characteristics</b>								
<b>(BASE N)</b>		<b>(384)</b>		<b>(383)</b>		<b>(216)</b>		<b>(216)</b>
<b>Age</b>	49.6 ± 10.7	---	49.5 ± 10.7	---	51.4 ± 9.7	---	51.6 ± 9.8	---
<b>Sex</b>								
Female	162	42%	162	42%	88	41%	88	41%
Male	222	58%	221	58%	128	59%	128	59%
<b>Ethnicity</b>								
Hispanic	74	19%	74	19%	40	19%	42	19%
Non-Hispanic	310	81%	309	81%	176	81%	174	81%
<b>Race</b>								
White	348	91%	347	91%	190	88%	190	88%
African American	12	3%	12	3%	13	6%	13	6%
Asian	15	4%	15	4%	7	3%	7	3%
Other	9	2%	9	2%	6	3%	6	3%
<b>Body mass index1 (kg/m2)</b>	27 ± 5	---	27 ± 5	---	27 ± 5	---	27 ± 5	---
<b>Diagnosis</b> (multiple diagnoses possible)								
Hepatitis C diagnosis (HCV)	184	48%	183	48%	102	47%	103	48%
Hepatocellular carcinoma diagnosis (HCC)	63	16%	57	15%	39	18%	33	15%
Alcohol (-ic cirrhosis)	52	14%	52	14%	32	15%	32	15%
Cholestatic liver disease	71	18%	71	19%	39	18%	38	18%
Noncholestatic cirrhosis other than HCV/alcohol	80	21%	80	21%	48	22%	48	22%
Metabolic disease	11	3%	11	3%	7	3%	7	3%
Biliary atresia	3	1%	3	1%	0	0%	0	0%
Malignancy other than HCC	11	3%	9	2%	5	2%	3	1%
Other	9	2%	10	3%	3	1%	5	2%
<b>MELD score at transplant1,2</b>								
<i>Categorical</i>								
6-10	80	21%	80	21%	22	10%	22	10%
11-20	229	60%	230	60%	104	48%	103	48%
21-30	48	13%	48	13%	45	21%	46	21%
31-40	10	3%	10	3%	41	19%	41	19%
Missing	16	4%	15	4%	4	2%	4	2%
<i>Continuous</i>	15 ± 6	---	15 ± 6	---	21 ± 9	---	21 ± 9	---
<b>Medical condition at transplant</b>								
Not hospitalized	335	87%	334	87%	130	60%	128	59%
Hospitalized (not ICU)	42	11%	42	11%	48	22%	48	22%
ICU	7	2%	7	2%	38	18%	40	19%
<b>Severity</b>								
Ventilator	5	1%	5	1%	15	7%	17	8%
Ascites	222	58%	222	58%	160	74%	160	75%
Dialysis	7	1%	5	1%	14	6%	16	7%
<b>Intraoperative</b>								
Cold ischemia time (minutes)	87 ± 94	---	84 ± 95	---	441 ± 215	---	473 ± 181	---
Duration of recipient operation (minutes)	511 ± 129	---	506 ± 127	---	371 ± 96	---	369 ± 94	---

NOTES. Calculated percentages include small number of cases with missing values in denominator.

TABLE 1b. *Donors*: Characteristics persons donating livers in living donor liver transplants (LDLT): Means and Percent Distributions. (Trivial differences highlighted in light yellow; more substantial differences are highlighted in light green; comparison to Freise et al., 2008, Table 2.) (c)

CHARACTERISTICS	LDLT				DDL			
	n (%) or Mean ± 1 SD				n (%) or Mean ± 1 SD			
	Published		Calculated		Published		Calculated	
DONOR characteristics (LDLT only)	n or Mean ± 1 SD	%	n or Mean ± 1 SD	%	n or Mean ± 1 SD	%	n or Mean ± 1 SD	%
Age	37 ± 9.7		37 ± 9.6			na	na	na
Intraoperative hypotension (<100 mmHg) <sup>1</sup>	88	23%	88	23%	na	na	na	na
Number of donor bile ducts								
1	205	53%	211	52%	na	na	na	na
2	135	35%	137	34%	na	na	na	na
3	21	5%	23	6%	na	na	na	na
Missing	23	6%	32	8%	na	na	na	na
Type of anastomosis								
Roux-en-Y	199	52%	(a)	52%	na	na	na	na
Other	218	47%	(a)	47%	na	na	na	na
Missing	5	2%	(a)	2%	na	na	na	na
Graft weight to recipient weight ratio <0.84	30	8%	(b)	(b)	na	na	na	na

(a) Original calculations completed in October, 2010; calculated percents are shown. Ns were requested in November 2010, and analyst could not locate output to identify Ns.

(b) Not calculated due to complexity.

(c) Calculated percentages include small number of cases with missing values in denominator.

**TABLE 2. Percent distributions of number of complications by: (1) experience with living donor transplants (<21 vs. 21+), and (2) dead donor transplants. (Trivial differences highlighted in light yellow; more substantial differences are highlighted in light green; comparison to Freise et al., 2008, Table 3.)**

Number of Complications	<21 Living Transplants				21+ Living Transplants				Dead Donor Transplants			
	PUBLISHED		CALCULATED		PUBLISHED		CALCULATED		PUBLISHED		CALCULATED	
	n	%	n	%	n	%	n	%	n	%	n	%
0	16	10	14	8	50	23	47	22	47	22	43	20
1	21	13	21	13	38	18	37	17	40	19	39	18
2	27	16	28	17	32	15	33	15	36	17	36	17
3	18	11	18	11	24	11	24	11	19	9	22	10
4	14	8	14	8	15	7	15	7	24	11	23	11
5	14	8	14	8	17	8	17	8	10	5	11	5
6	11	7	11	7	11	5	11	5	4	2	4	2
7	15	9	15	9	5	2	7	3	8	4	9	4
8	7	4	7	4	7	3	7	3	7	3	6	3
9	9	5	8	5	7	3	7	3	5	2	5	2
10+	15	9	16	10	11	5	12	6	16	7	18	8
(BASE N)		(167)		(166)		(217)		(217)		(216)		(216)

**Note.** All percentages rounded to integer values.

TABLE 3. Recipients: Percent distributions of type of complications by: (1) experience with living donor transplants (<21 vs. 21+), and (2) dead donor transplants. (Trivial differences in percentages are highlighted in light yellow; more substantial differences are highlighted in light green; comparison to Freise et al., 2008, Table 4; see Note a.)

COMPLICATIONS	LDLT < 21				LDLT 21+				DDLT			
	PUBLISHED		CALCULATED		PUBLISHED		CALCULATED		PUBLISHED		CALCULATED	
	n	%	n	%	n	%	n	%	n	%	n	%
<b>Surgical complications</b>												
<i>Biliary complications</i>	84	50.3	84	50.6	77	35.5	78	35.9	53	24.5	53	24.5
Biliary leak or biloma	63	37.7	63	37.9	59	27.2	59	27.1	22	10.2	22	10.2
Biliary stricture	36	21.6	36	21.7	39	18.0	40	18.4	35	16.2	35	16.2
<i>Other surgical complications</i>												
Unplanned reexploration	60	35.9	60	36.1	42	19.4	42	19.4	37	17.1	38	17.6
Hepatic artery thrombosis	14	8.4	14	8.4	11	5.1	11	5.1	5	2.3	5	2.3
Portal vein thrombosis	7	4.2	7	4.2	4	1.8	5	1.8	0	0.0	0	0.0
Intraabdominal bleeding	13	7.8	13	7.8	14	6.5	14	6.5	17	7.9	18	8.3
Intraabdominal abscesses	17	10.2	17	10.2	17	7.8	17	7.8	11	5.1	11	5.1
Ileus	5	3.0	5	3.0	11	5.1	11	5.1	10	4.6	10	4.6
Bowel obstruction	9	5.4	9	5.4	4	1.8	4	2.3	4	1.9	4	1.9
Pneumothorax	5	3.0	5	3.0	0	0.0	0	0.0	5	2.3	5	2.3
Wound dehiscence	5	3.0	5	3.0	5	2.3	5	2.3	7	3.2	7	3.2
Incisional hernia	22	13.2	22	13.2	18	8.3	25	11.5	18	8.3	22	10.2
Inferior vena cava thrombosis	0	0.0	0	0.0	3	1.4	3	1.4	4	1.9	4	1.9
Neuropraxia	2	1.2	3	1.8	3	1.4	4	1.8	5	2.3	5	2.3
<b>Medical complications</b>												
GI bleeding	16	9.6	16	9.6	17	7.8	18	8.3	6	2.8	8	3.7
Pulmonary edema	24	14.4	24	14.5	22	10.1	23	10.6	45	20.8	47	21.8
Respiratory arrest	4	2.4	4	2.4	7	3.2	8	3.7	15	6.9	15	6.9
Hepatic encephalopathy	9	5.4	9	5.4	9	4.1	9	4.2	22	10.2	22	10.2
Myocardial infarction	1	0.6	1	0.6	2	0.9	2	0.9	1	0.5	1	0.5
Congestive heart failure	2	1.2	2	1.2	0	0.0	0	0.0	2	0.9	2	0.9
Pleural effusion	37	22.2	37	22.3	41	18.9	41	18.9	45	20.8	46	21.3
Cardiopulmonary arrest	5	3.0	5	3.0	3	1.4	3	1.4	9	4.2	9	4.2
Aspiration	5	3.0	5	3.0	3	1.4	3	1.4	4	1.9	4	1.9
Pulmonary embolism	1	0.6	1	0.6	1	0.5	1	0.5	0	0.0	0	0.0
Ascites	35	21.0	35	21.0	19	8.8	20	9.2	36	16.7	37	17.1
Chronic rejection	8	4.8	8	4.8	11	5.1	12	5.5	12	5.6	13	6.0
Recurrence of disease, excluding HCV and HCC	9	5.4	9	5.4	10	4.6	11	5.1	4	1.9	3	1.4
Deep vein thrombosis	2	1.2	2	1.2	2	0.9	2	0.9	5	2.3	5	2.3
<b>Infections</b>												
<i>Overall infections</i>	80	47.9	80	48.2	72	33.2	76	35.0	73	33.8	77	35.7
<i>All bacterial infections:</i>	69	41.3	69	41.6	71	32.7	75	34.6	68	31.5	72	33.3
Bile duct	19	11.4	19	11.5	17	7.8	18	8.3	7	3.2	8	3.7
Wound	21	12.6	21	12.7	21	9.7	21	9.7	23	10.6	23	10.7
Blood	38	22.8	38	22.9	31	14.3	33	15.2	31	14.4	32	14.8
Liver abscess, separate from cholangitis	7	4.2	7	4.2	4	1.8	4	1.9	2	0.9	2	0.9
Pulmonary	17	10.2	17	10.2	15	6.9	18	8.3	19	8.8	23	10.7
Central nervous system	1	0.6	1	0.6	1	0.5	1	0.5	0	0.0	0	0.0
Urinary tract	22	13.2	22	13.2	16	7.4	16	7.4	24	11.1	25	11.6
<i>All viral infections</i>	7	4.2	7	4.2	6	2.8	6	2.8	12	5.6	14	6.5
<i>All fungal infections:</i>	21	12.6	22	13.3	13	6.0	13	6.0	24	11.1	25	11.6
Pulmonary	5	3.0	6	3.6	1	0.5	1	0.5	14	6.5	14	6.5
Urinary tract	2	1.2	2	1.2	5	2.3	5	2.3	12	5.6	13	6.0
Wound	6	3.6	6	3.6	2	0.9	2	0.9	3	1.4	3	1.4
Bile duct	0	0.0	0	0.0	2	0.9	2	0.9	0	0.0	0	0.0
Blood	8	4.8	8	4.8	2	0.9	2	0.9	7	3.2	8	3.7
Liver	4	2.4	4	2.4	1	0.5	1	0.5	0	0.0	0	0.0
Central nervous system	3	1.8	3	1.8	1	0.5	1	0.5	0	0.0	0	0.0
<b>Other complications</b>	48	28.7	49	29.5	60	27.6	61	28.1	51	23.6	53	24.5
(BASE N)		(167)		(166)		(217)		(217)		(216)		(216)

COMPLICATIONS	LDLT < 21		LDLT 21+		DDLTL	
	Published %	Calculated %	Published %	Calculated %	Published %	Calculated %
Ascites	21.0	21.0	8.8	9.2	16.7	17.1
Chronic rejection	4.8	4.8	5.1	5.5	5.6	6.0
Recurrence of disease, excluding HCV and HCC	5.4	5.4	4.6	5.1	1.9	1.4
Deep vein thrombosis	1.2	1.2	0.9	0.9	2.3	2.3
<b>Infections</b>						
<i>Overall infections</i>	47.9	48.2	33.2	35.0	33.8	35.7
<i>All bacterial infections:</i>	41.3	41.6	32.7	34.6	31.5	33.3
Bile duct	11.4	11.5	7.8	8.3	3.2	3.7
Wound	12.6	12.7	9.7	9.7	10.6	10.7
Blood	22.8	22.9	14.3	15.2	14.4	14.8
Liver abscess, separate from cholangitis	4.2	4.2	1.8	1.9	0.9	0.9
Pulmonary	10.2	10.2	6.9	8.3	8.8	10.7
Central nervous system	0.6	0.6	0.5	0.5	0.0	0.0
Urinary tract	13.2	13.2	7.4	7.4	11.1	11.6
<i>All viral infections</i>	4.2	4.2	2.8	2.8	5.6	6.5
<i>All fungal infections:</i>	12.6	13.3	6.0	6.0	11.1	11.6
Pulmonary	3.0	3.6	0.5	0.5	6.5	6.5
Urinary tract	1.2	1.2	2.3	2.3	5.6	6.0
Wound	3.6	3.6	0.9	0.9	1.4	1.4
Bile duct	0.0	0.0	0.9	0.9	0.0	0.0
Blood	4.8	4.8	0.9	0.9	3.2	3.7
Liver	2.4	2.4	0.5	0.5	0.0	0.0
Central nervous system	1.8	1.8	0.5	0.5	0.0	0.0
<b>Other complications</b>	28.7	29.5	27.6	28.1	23.6	24.5
(BASE N)	(167)	(166)	(217)	(217)	(216)	(216)



# Appendix A

**The full text of the article referenced will be provided to approved data requestors along with the archived data.**

Freise CE, Gillespie BW, Koffron AJ, Lok AS, Pruett TL, Emond JC, Fair JH, Fisher RA, Olthoff KM, Trotter JF, Ghobrial RM, Everhart JE.

**A2ALL Study Group. Recipient morbidity after living and deceased donor liver transplantation: findings from the A2ALL Retrospective Cohort Study.**

*Am J Transplant.* 2008 Dec; 8(12):2569-79. Epub 2008 Oct 24.

# APPENDIX B

## SAS Code Supplied by DCC to Permit Replication

```

options ps=55 ls=78 nonumber formchar='|----|+\---+|=|^<>*' mprint;
*options ps=65 ls=180 nonumber formchar='|----|+\---+|=|^<>*' mprint orientation=landscape;

*****;
* This is "code to create constucted vars - NIDDK rev.sas"
*
* CODE SUBMITTED BY A2ALL D.C.C. (T.Shearon) ON 5/6/10
* to create inclusion/exclusion indicators from raw variables in
* A2ALL raw legacy datasets
* NIDDK incorporated code into the current program to create
*
* output SAS dataset:
* \\rcdubuntu01.rtp.rti.org\niddk\03_Data_And_Tools\Studies\A2ALL\working archive\Analysis data
- by NIDDK\
* RECIPIENT.SAS7BDAT
*
* SAS formats (value labels):
* Raw formats
* \\rcdubuntu01.rtp.rti.org\niddk\03_Data_And_Tools\Studies\A2ALL\working archive\Formats
* Analysis formats (for composite inclusion/exclusion variables):
* \\rcdubuntu01.rtp.rti.org\niddk\03_Data_And_Tools\Studies\A2ALL\working archive\Analysis
formats
*
* UPDATED:
* - 5/26/10
* TO INCORPORATE ADDITIONAL CODE RECEIVED FROM DCC
* to create MELD at Transplant AND Biliary anastomosis site category ***
*
* UPDATED:
* - 5/27/10
* TO INCORPORATE CODE that creates outcome variables in Tables 3, 4a, 4b
* of publication used for DSIC ***
*
* UPDATED:
* - 10/18/10
* TO RUN CODE on revised version of raw datasets received from DCC on 9/29/2010
*****;

* raw A2ALL data submitted Sept 29 2010 *;
libname a2allrev '\\rcdubuntu01.rtp.rti.org\niddk\03_Data_And_Tools\Studies\A2ALL\working
archive\Data';

* A2ALL data formats submitted Sept 29 2010 *;
libname library '\\rcdubuntu01.rtp.rti.org\niddk\03_Data_And_Tools\Studies\A2ALL\working
archive\Formats';

* A2ALL analysis inclusion/exclusion formats submitted May 6 2010 (dgnformat.sas) *;
%include '\\rcdubuntu01.rtp.rti.org\niddk\03_Data_And_Tools\Studies\A2ALL\working
archive\Analysis formats\dgnformat - niddk.sas';

* output directory *;
libname a2anal '\\rcdubuntu01.rtp.rti.org\niddk\03_Data_And_Tools\Studies\A2ALL\working
archive\Analysis data - by NIDDK';

* inclusion/exclusion code starts here *;

%macro check6dgn(var,text);
  &var=(dL1=&text or dL2=&text or dL3=&text or
    dE1=&text or dE2=&text or dE3=&text) ;
%mend;

-----
* Diagnoses at listing/enrollment
-----;

data recip_all; merge a2allrev.niddk_cdr_retro_rcp a2allrev.niddk_cdr_retro_rcp_srtr;
  by resp_id;

* notes from T.Shearon, 5/6/10: The first section of code creates diagnosis indicators

```

at listing/enrollment (these are not mutually exclusive categories).  
I included all of them in case they might be useful for you later,  
although really only one is needed for the exclusions \*;

```
*-- DIAGNOSIS --*;  
*-- Patients can fall into more than 1 category HCC, HCV, alcohol, etc --*;  
dL1=put(RECIP_PRIMDX_LIST,$pdgn_HCC_HCV_ALC.);  
dL2=put(RECIP_SECDX_LIST,$pdgn_HCC_HCV_ALC.);  
dL3=put(RECIP_TERTDX_LIST,$pdgn_HCC_HCV_ALC.);  
dE1=put(RECIP_NEWPRIMDX_ENROLL,$pdgn_HCC_HCV_ALC.);  
dE2=put(RECIP_NEWSECONDX_ENROLL,$pdgn_HCC_HCV_ALC.);  
dE3=put(RECIP_NEWTERTDX_ENROLL,$pdgn_HCC_HCV_ALC.);  
dT1=put(RCT_PRDXCHANGE,$pdgn_HCC_HCV_ALC.);  
dT2=put(RCT_SEDXCHANGE,$pdgn_HCC_HCV_ALC.);  
dT3=put(RCT_TEDXCHANGE,$pdgn_HCC_HCV_ALC.);
```

```
* AT LISTING OR ENROLLMENT *;  
* DO NOT COUNT AHN as a separate dgn group since fulminants excluded -- these are now in  
with other (if they were not  
already in another group) --*;
```

```
%check6dgn(recip_dgn_BilAtr_enr,'Liver : Biliary Atresia');  
%check6dgn(recip_dgn_chol_enr,'Liver : Cholestatic Liver Disease/Cirrho');  
%check6dgn(recip_dgn_Malig_nonHCC_enr,'Liver : Malignant Neoplasms, not HCC');  
%check6dgn(recip_dgn_Metab_enr,'Liver : Metabolic Diseases');  
%check6dgn(recip_dgn_othnoncc_enr,'Liver : Non-Chol Cirrhosis, not HCV/alch');  
%check6dgn(recip_dgn_alcoh_enr,'Liver : Alcohol'); * '4215'='LAENNECS CIRRHOSIS  
(ALCOHOLIC)';
```

```
*-- FOR HCC and HCV use 6 diagnoses + yes/no question at listing, enrollment --*;  
*'4400'='PRIMARY LIVER MALIGNANCY (PLM): HEPATOMA, HEPATOCELLULAR CARCINOMA (HCC)'  
'4401'='PLM: HEPATOMA (HCC) AND CIRRHOSIS';  
%check6dgn(recip_dgn_hcc1_enr,'Liver : HCC'); recip_DGN_HCC_enr=(recip_dgn_hcc1_enr=1 or  
RECIP_HCC_LIST='1' or RECIP_HCC_ENROLL='1');
```

```
*'4204'='CIRRHOSIS: POSTNECROTIC, TYPE C'  
'4216'='LAENNECS CIRRHOSIS AND POSTNECROTIC CIRRHOSIS TYPE C (CAH C)';  
%check6dgn(recip_dgn_hcv1_enr,'Liver : HCV'); recip_DGN_HCV_enr=(recip_dgn_hcv1_enr=1 or  
RECIP_HCV_LIST='1' or RECIP_HCV_ENROLL='1');
```

```
recip_dgn_other_enr=not(recip_dgn_BilAtr_enr or recip_dgn_chol_enr or  
recip_dgn_Malig_nonHCC_enr or recip_dgn_Metab_enr or  
recip_dgn_othnoncc_enr or recip_dgn_alcoh_enr or recip_dgn_hcc_enr or  
recip_dgn_hcv_enr );
```

```
label recip_dgn_BilAtr_enr='Recipient Any Dgn (list/enr): Biliary Atresia'  
  
recip_dgn_chol_enr='Recipient Any Dgn (list/enr): Cholestatic Liver Disease/Cirrho'  
  
recip_dgn_Malig_nonHCC_enr='Recipient Any Dgn (list/enr): Malignant Neoplasms other than  
HCC'  
  
recip_dgn_Metab_enr='Recipient Any Dgn (list/enr): Metabolic Diseases'  
  
recip_dgn_othnoncc_enr='Recipient Any Dgn (list/enr): Non-Cholestatic Cirrhosis other  
than HCV/alcohol'  
recip_DGN_HCV_enr="Recipient Any Dgn (list/enr): Hepatitis C"  
recip_DGN_HCC_enr="Recipient Any Dgn (list/enr): HCC"  
recip_DGN_alcoh_enr="Recipient Any Dgn (list/enr): Alcoholic Cirrhosis"  
recip_DGN_other_enr="Recipient Any Dgn (list/enr): Other";
```

```
*-----  
* EXCLUSIONS  
* notes from T.Shearon, 5/6/10: The second section has the exclusion criterion *;  
*-----  
if SRTR_RECIP_status_list=6010 and recip_dgn_othnoncc_enr^=1 then delete; *exclude all  
fulminants (12);
```

```
LDLT = (RIO_GRFTYP in ("4","5") and rio_proabort ne '1' and RCP_DOMINO ne 1) or  
(RIO_GRFTYP in ("4","5") and rio_proabort = '1' and rio_abortreas not in
```

```

('1','2','3','4'));

* DDLT includes dominoes and splits, includes those with aborted procedures as long as it was
not due to donor reasons;
DDLT = (RIO_GRFTYP in ("1","2","3") and rio_proabort ne '1' ) or
(RIO_GRFTYP in ("4","5") and rio_proabort ne '1' and RCP_DOMINO=1) or
(RIO_GRFTYP in ("4","5") and rio_proabort = '1' and rio_abortreas not in
('1','2','3','4') and RCP_DOMINO=1) or
(RIO_GRFTYP in ("1","2","3") and rio_proabort = '1' and rio_abortreas not in
('1','2','3','4'));

* added by NIDDK 5/10/10: *;
LABEL LDLT=EXCLUSION CRITERION
DDLT=EXCLUSION CRITERION INCL DOMINOES AND SPLITS;

run;

* get freqs of inclusion/exclusion indicators *;
ods rtf file='\\rcdubuntu01.rtp.rti.org\niddk\03_Data And Tools\Studies\A2ALL\working
archive\Analysis data - by NIDDK\inc exc freqs.rtf' style=minimal;
title Frequencies of variables in dataset RECIP_ALL.SAS7BDAT;
proc freq; tables recip_dgn_BilAtr_enr--DDLTL; run;
ods rtf close; run;

*****
**** UPDATE 5/26/10 TO INCORPORATE CODE RECEIVED FROM DCC ***;
**** TO CREATE MELD AT TRANSPLANT, AND Biliary Anastomosis Site Category ***;

**** We calculated MELD at transplant using the code below.
MELD at enrollment was calculated the same way but we supplemented with SRTR data
so the calculated variables already exist on the file.
---Tempie *** ;

DATA RECIP_ALL; SET RECIP_ALL;

*-- MELD at transplant --*;
* lower bound of 1.0 used for all components of MELD;

if RCT_SCR > . then MELD_txp_creat=max(RCT_SCR,1);
if RCT_TBILI > . then MELD_txp_TBILI=max(RCT_TBILI,1);
if RCT_INR > . then MELD_txp_INR =max(RCT_INR,1);

* for creat, upper bound is 4.0, also is 4.0 if patient is on dialysis;

if RCT_DIALYZE="1" or MELD_txp_creat > 4 then MELD_txp_creat=4;
if MELD_txp_creat>. and MELD_txp_TBILI>. and MELD_txp_INR>. then
MELD_txp_RAW = (0.957*log(MELD_txp_creat)) + (0.378*log(MELD_txp_TBILI)) +
(1.120*log(MELD_txp_INR));
if MELD_txp_RAW>. then do;
MELD_txp =(min(40, (round(MELD_txp_RAW+0.643,.1)*10)));
MELD_txp_SCORE_MISSING=0;
end;
else MELD_txp_SCORE_MISSING=1;
label MELD_txp="MELD at transplant (max 40)"
MELD_txp_SCORE_MISSING="1 if MELD at txp missing creat/INR/bili";

*** Feel free to ask as many questions you need to -- I know it can be confusing.
The variables you want are RIO_BILANASTNO and BIL_ANAS_SITE_1, BIL_ANAS_SITE_2, and
BIL_ANAS_SITE_3 on the recipient file.
These come from the recipient intraop form. I've included code below.
---Tempie ***;

* dictomize ALL ROUX vs. Not-ALL ROUX;
if RIO_BILANASTNO=1 then do;
if BIL_ANAS_SITE_1 in ("2", "6", "91") then BIL_ANAS_SITE_cat=1;
*ROUX";
else BIL_ANAS_SITE_cat=0; *Non_ROUX; *ref;
end;
else if RIO_BILANASTNO=2 then do;
if BIL_ANAS_SITE_1 in ("2", "6", "91") and BIL_ANAS_SITE_2 in

```

```

("2", "6", "91") then BIL_ANAS_SITE_cat=1;
                        else BIL_ANAS_SITE_cat=0;
end;
else if RIO_BILANASTNO=3 then do;
    if BIL_ANAS_SITE_1 in ("2", "6", "91") and BIL_ANAS_SITE_2 in
("2", "6", "91") and BIL_ANAS_SITE_3 in ("2", "6", "91")
    then BIL_ANAS_SITE_cat=1;
    else BIL_ANAS_SITE_cat=0;
end;
else if RIO_BILANASTNO=4 then do;
    if BIL_ANAS_SITE_1 in ("2", "6", "91") and BIL_ANAS_SITE_2 in
("2", "6", "91") and BIL_ANAS_SITE_3 in ("2", "6", "91")
    and BIL_ANAS_SITE_4 in ("2", "6", "91") then
BIL_ANAS_SITE_cat=1;
    else BIL_ANAS_SITE_cat=0;
end;
else if RIO_BILANASTNO=5 then do;
    if BIL_ANAS_SITE_1 in ("2", "6", "91") and BIL_ANAS_SITE_2 in
("2", "6", "91") and BIL_ANAS_SITE_3 in ("2", "6", "91")
    and BIL_ANAS_SITE_4 in ("2", "6", "91") and BIL_ANAS_SITE_5 in
("2", "6", "91") then BIL_ANAS_SITE_cat=1;
    else BIL_ANAS_SITE_cat=0;
end;
label BIL_ANAS_SITE_cat="Biliary anastomosis site category: 1=ALL ROUX,
0=Not-ALL ROUX";
RUN;

```

```

* get freqs of new variables *;
ods rtf file='\\rcdubuntu01.rtp.rti.org\niddk\03_Data_And_Tools\Studies\A2ALL\working
archive\Analysis data - by NIDDK\meld-txp bil freqs.rtf' style=minimal;
title A2ALL RECIP_ALL -- meld-txp bile freqs;
PROC FREQ DATA=RECIP_ALL;TABLES
MELD_txp
MELD_txp_SCORE_MISSING
BIL_ANAS_SITE_cat; RUN;
PROC MEANS DATA=RECIP_ALL; VAR MELD_txp_creat
MELD_txp_TBILI
MELD_txp_INR
MELD_txp_RAW; RUN;
ods rtf close; run;

```

```

*****;
**** UPDATE 5/27/10 TO INCORPORATE CODE RECEIVED FROM DCC ****;
**** TO CREATE OUTCOME VARIABLES REPORTED ON IN DSIC PUBLICATION TABLE 3,4A,4B;

```

```

DATA RECIP_ALL; SET RECIP_ALL;
*-----
* Variables for Table 3;
*-----;
*-- Count all complications:
    r_COMP1 = list complications with corresponding Complication Severity form --
complication is yes if value=1
                (RMOR_GIBLD is complication if value=1 or 2 but new variable created so it
can be combined with those which are complications only for value=1)
    r_COMP2 and r_COMP3 = complications with no CS form (will not be able to grade these
fully)
                (r_COMP2 are complications if value=1, r_COMP3 are complications if value ne ' '
--*;
*-- Grade only those complications with a CS form: r_comp1 --*;

    if RMOR_GIBLD in ("1", "2") then RMOR_GIBLD_2="1"; else if RMOR_GIBLD ="3" then
RMOR_GIBLD_2="2"; else RMOR_GIBLD=" ";
array r_comp1{18} RMOR_BILE RMOR_STRICT RMOR_ABBLD
RMOR_GIBLD_2 RMOR_ABSCESS RMOR_ILEUS
RMOR_ASCITIS RMOR_HAT RMOR_BOWEL RMOR_REEXPLORE RMOR_ENCEPH
RMOR_PVT RMOR_IVCT RMOR_CR RMOR_RECUR
/*RMOR_RETXP: not a complication*/RMOR_DVT

```

```

                                RMOR_NEURAPRAX      RMOR_INFECT;

    array r_comp2                RMOR_SURGCOMP      RMOR_MI                RMOR_CHF
RMOR_PNEUMO  RMOR_PLEUR        RMOR_PEDEM
                                RMOR_CPR                RMOR_RESP                RMOR_ASPIR
    RMOR_PE                    RMOR_DEHISC  RMOR_HERNIA
                                RMOR_OTHER;

    array r_comp3                RMOR_BWOUND  RMOR_BBILE                RMOR_BBLOOD  RMOR_BLIV
RMOR_BPULM          RMOR_BCNS  RMOR_BUTI
                                RMOR_VWOUND  RMOR_VBILE                RMOR_VBLOOD  RMOR_VLIV
    RMOR_VPULM        RMOR_VCNS  RMOR_VUTI
                                RMOR_FWOUND  RMOR_FBILE                RMOR_FBLOOD  RMOR_FLIV
    RMOR_FPULM        RMOR_FCNS  RMOR_FUTI;

    r_tot_comp=0;
    do i=1 to 18;
        if r_comp1{i}="1" then r_tot_comp=r_tot_comp+1;
    end;
    do over r_comp2;
        if r_comp2="1" then r_tot_comp=r_tot_comp+1;
    end;
    do over r_comp3;
        if r_comp3 ne " " then r_tot_comp=r_tot_comp+1;
    end;
    label r_tot_comp="Number of complications (including comp. that can be graded and those
that cannot be graded) for each txped recipient";

    Number_of_Complications=r_tot_comp; *re-name just for Figure 1 histogram's legend;

    *collapse r_tot_comp in different ways;
    if r_tot_comp ge 6 then r_tot_comp_cat=7; else r_tot_comp_cat=r_tot_comp;
    if r_tot_comp ge 10 then r_tot_comp_cat2=11; else r_tot_comp_cat2=r_tot_comp;

    if r_tot_comp ge 1 then r_tot_comp_cat3=1; else r_tot_comp_cat3=0;
    if r_tot_comp ge 6 then r_tot_comp_cat4=1; else r_tot_comp_cat4=0;
    label r_tot_comp_cat3="if any complication"
        r_tot_comp_cat4="if >= 6 complications";

*-----
* Variables for Table 4A;
*-----;

    *create new var r_any_bacte, r_any_viral, and r_any_fungl for total number of patients
with at least one bacterial/viral/fungal infections in Table 2A;
    array r_comp_bacte  RMOR_BWOUND  RMOR_BBILE                RMOR_BBLOOD  RMOR_BLIV
RMOR_BPULM          RMOR_BCNS  RMOR_BUTI;
    array r_comp_viral  RMOR_VWOUND  RMOR_VBILE                RMOR_VBLOOD  RMOR_VLIV
RMOR_VPULM        RMOR_VCNS  RMOR_VUTI;
    array r_comp_fungl  RMOR_FWOUND  RMOR_FBILE                RMOR_FBLOOD  RMOR_FLIV
RMOR_FPULM        RMOR_FCNS  RMOR_FUTI;

    r_any_bacte=0; r_any_viral=0; r_any_fungl=0;
    do over r_comp_bacte;
        if r_comp_bacte ne " " then r_any_bacte=1;
    end;
    do over r_comp_viral;
        if r_comp_viral ne " " then r_any_viral=1;
    end;
    do over r_comp_fungl;
        if r_comp_fungl ne " " then r_any_fungl=1;
    end;
    label r_any_bacte="pts with at least one bacterial infection";
    label r_any_viral="pts with at least one viral infection";
    label r_any_fungl="pts with at least one fungal infection";

    if RMOR_REEXPLORE in ("1", "2") then Reexplore_new=1;
    else if RMOR_REEXPLORE="3" then Reexplore_new=0;
    else if RMOR_REEXPLORE=" " then Reexplore_new=" ";

```

```

*-----
* Variables for Table 4B;
*-----;
*-- Clavien grade:
   - death, txp, disab, hosp14, icu, and onset are variables on each complication form;

array r_grade{18}  RBLCS_GRADE      RBSCS_GRADE      RABCS_GRADE      RGIBCS_GRADE
                   RAACS_GRADE      RICS_GRADE
                   RBOCS_GRADE      RRECS_GRADE     RECS_GRADE
RASCCS_GRADE      RHATCS_GRADE    RPVTCS_GRADE
                   RIVCTCS_GRADE    RCRCS_GRADE      RRECCS_GRADE
/*RLTCS_GRADE: RMOR_RETXP is not a compliation*/
                   RINFCS_GRADE;
array r_death{18}  RBLCS_DEATH      RBSCS_DEATH      RABCS_DEATH      RGIBCS_DEATH
                   RAACS_DEATH      RICS_DEATH
                   RBOCS_DEATH      RRECS_DEATH     RECS_DEATH
RASCCS_DEATH      RHATCS_DEATH    RPVTCS_DEATH
                   RIVCTCS_DEATH    RCRCS_DEATH      RRECCS_DEATH
/*RLTCS_DEATH: RMOR_RETXP is not a compliation*/
                   RINFCS_DEATH;
array r_txp{18}    RBLCS_RETXP      RBSCS_RETXP      RABCS_RETXP      RGIBCS_RETXP
                   RAACS_RETXP      RICS_RETXP
                   RBOCS_RETXP      RRECS_RETXP     RECS_RETXP
RASCCS_RETXP      RHATCS_RETXP    RPVTCS_RETXP
                   RIVCTCS_RETXP    RCRCS_RETXP      RRECCS_RETXP
/*RLTCS_RETXP: RMOR_RETXP is not a compliation*/
                   RINFCS_RETXP;
array r_disab{18}  RBLCS_RESIDISABLE    RBSCS_RESIDISABLE  RABCS_RESIDISABLE
RGIBCS_RESIDISABLE RAACS_RESIDISABLE    RICS_RESIDISABLE
                   RBOCS_RESIDISABLE  RRECS_RESIDISABLE  RECS_RESIDISABLE
                   RASCCS_RESIDISABLE  RHATCS_RESIDISABLE  RPVTCS_RESIDISABLE
                   RIVCTCS_RESIDISABLE  RCRCS_RESIDISABLE
RRECCS_RESIDISABLE /*RLTCS_RESIDISABLE: RMOR_RETXP is not a compliation*/
                   RDVTCS_RESIDISABLE  RNCS_RESIDISABLE
RINFCS_RESIDISABLE;
array r_hosp_4wk_14d{18}  RBLCS_LONGSTAY      RBSCS_LONGSTAY      RABCS_LONGSTAY
RGIBCS_LONGSTAY          RAACS_LONGSTAY      RICS_LONGSTAY
                   RBOCS_LONGSTAY      RRECS_LONGSTAY
RECS_LONGSTAY           RASCCS_LONGSTAY    RHATCS_LONGSTAY      RPVTCS_LONGSTAY
                   RIVCTCS_LONGSTAY    RCRCS_LONGSTAY
RRECCS_LONGSTAY        /*RLTCS_LONGSTAY: RMOR_RETXP is not a compliation*/
                   RDVTCS_LONGSTAY      RNCS_LONGSTAY
RINFCS_LONGSTAY;
array r_icu_5d{18}  RBLCS_ICUDAMIT      RBSCS_ICUDAMIT      RABCS_ICUDAMIT
RGIBCS_ICUDAMIT      RAACS_ICUDAMIT      RICS_ICUDAMIT
                   RBOCS_ICUDAMIT      RRECS_ICUDAMIT     RECS_ICUDAMIT
                   RASCCS_ICUDAMIT      RHATCS_ICUDAMIT    RPVTCS_ICUDAMIT
                   RIVCTCS_ICUDAMIT    RCRCS_ICUDAMIT      RRECCS_ICUDAMIT
/*RLTCS_ICUDAMIT: RMOR_RETXP is not a compliation*/
                   RDVTCS_ICUDAMIT
RNCS_ICUDAMIT
                   RINFCS_ICUDAMIT;
array r_med{18}     RBLCS_TXMED      RBSCS_TXMED      RABCS_TXMED      RGIBCS_TXMED
                   RAACS_TXMED      RICS_TXMED
                   RBOCS_TXMED      RRECS_TXMED     RECS_TXMED
RASCCS_TXMED        RHATCS_TXMED    RPVTCS_TXMED
                   RIVCTCS_TXMED    RCRCS_TXMED      RRECCS_TXMED
/*RLTCS_TXMED: RMOR_RETXP is not a compliation*/
                   RDVTCS_TXMED
RNCS_TXMED
                   RINFCS_TXMED;
array r_medtype{18}  RBLCS_TXMEDTYPE    RBSCS_TXMEDTYPE    RABCS_TXMEDTYPE
RGIBCS_TXMEDTYPE    RAACS_TXMEDTYPE    RICS_TXMEDTYPE
                   RBOCS_TXMEDTYPE    RRECS_TXMEDTYPE    RECS_TXMED
TYPE                RASCCS_TXMEDTYPE    RHATCS_TXMEDTYPE    RPVTCS_TXMEDTYPE
                   RIVCTCS_TXMEDTYPE    RCRCS_TXMEDTYPE    RRECCS_TXMEDTYPE
/*RLTCS_TXMEDTYPE: RMOR_RETXP is not a compliation*/
                   RDVTCS_TXMEDTYPE    RNCS_TXMEDTYPE
RINFCS_TXMEDTYPE;
array r_transfuse{18}  RBLCS_TRANSFUSE    RBSCS_TRANSFUSE    RABCS_TRANSFUSE
RGIBCS_TRANSFUSE    RAACS_TRANSFUSE    RICS_TRANSFUSE

```



```

S_TRANSFUSE          RASCCS_TRANSFUSE          RBOCS_TRANSFUSE          RRECS_TRANSFUSE          REC
                    RHATCS_TRANSFUSE          RPVTCS_TRANSFUSE
                    RIVCTCS_TRANSFUSE          RCRCS_TRANSFUSE          RRECCS_TRA
NSFUSE          /*RLTCS_TRANSFUSE: RMOR_RETXP is not a compliation*/
                    RDVTCS_TRANSFUSE          RNCS_TRANSFUSE

RINFCS_TRANSFUSE;
array r_bldunit{18} RBLCS_PRBC          RBSCS_PRBC          RABCS_PRBC
RGIBCS_PRBC          RAACS_PRBC          RICS_PRBC

                    RBOCS_PRBC          RRECS_PRBC          RECS_PRBC
                    RHATCS_PRBC          RPVTCS_PRBC
                    RIVCTCS_PRBC          RCRCS_PRBC          RRECCS_PRBC
/*RLTCS_PRBC: RMOR_RETXP is not a compliation*/
                    RDVTCS_PRBC          RNCS_PRBC
                    RINFCS_PRBC;

array r_proc{18}          RBLCS_PROCEDURE          RBSCS_PROCEDURE          RABCS_PROCEDURE
                    RGIBCS_PROCEDURE          RAACS_PROCEDURE          RICS_PROCEDURE

                    RBOCS_PROCEDURE          RRECS_PROCEDURE          RECS_PROCE
DURE          RASCCS_PROCEDURE          RHATCS_PROCEDURE          RPVTCS_PROCEDURE
                    RIVCTCS_PROCEDURE          RCRCS_PROCEDURE          RRECCS_PROCEDURE
                    /*RLTCS_PROCEDURE: RMOR_RETXP is not a compliation*/
                    RDVTCS_PROCEDURE
RNCS_PROCEDURE

                    RINFCS_PROCEDURE;

array r_proctype{18}          RBLCS_PROCTYPE          RBSCS_PROCTYPE          RABCS_PROCTYPE
                    RGIBCS_PROCTYPE          RAACS_PROCTYPE          RICS_PROCTYPE

                    RBOCS_PROCTYPE          RRECS_PROCTYPE          REC
S_PROCTYPE          RASCCS_PROCTYPE          RHATCS_PROCTYPE          RPVTCS_PROCTYPE
                    RIVCTCS_PROCTYPE          RCRCS_PROCTYPE
RRECCS_PROCTYPE          /*RLTCS_PROCTYPE: RMOR_RETXP is not a compliation*/
                    RDVTCS_PROCTYPE
                    RNCS_PROCTYPE

                    RINFCS_PROCTYPE;

array r_onset{18}          RBLCS_ONSETDATE          RBSCS_ONSETDATE          RABCS_ONSETDATE
RGIBCS_ONSETDATE          RAACS_ONSETDATE          RICS_ONSETDATE

                    RBOCS_ONSETDATE          RRECS_ONSETDATE          RECS_ONSETDATE
                    RASCCS_ONSETDATE          RHATCS_ONSETDATE          RPVTCS_ONSETDATE
                    RIVCTCS_ONSETDATE          RCRCS_ONSETDATE          RRECCS_ONSETDATE
/*RLTCS_ONSETDATE: RMOR_RETXP is not a compliation*/
                    RDVTCS_ONSETDATE          RNCS_ONSETDATE
                    RINFCS_ONSETDATE;

*array r_hosp_icu_days{24} RECIP_HOSP_ICUDAY          RECIP_HOSP_ICUDAY_2
RECIP_HOSP_ICUDAY_3          RECIP_HOSP_ICUDAY_4          RECIP_HOSP_ICUDAY_5
                    RECIP_HOSP_ICUDAY_6          RECIP_HOSP_ICUDAY_7
                    RECIP_HOSP_ICUDAY_8          RECIP_HOSP_ICUDAY_9          RECIP_HOSP_ICUDAY_10
                    RECIP_HOSP_ICUDAY_51063          RECIP_HOSP_ICUDAY_51070
RECIP_HOSP_ICUDAY_51077          RECIP_HOSP_ICUDAY_51084          RECIP_HOSP_ICUDAY_51091
                    RECIP_HOSP_ICUDAY_51098          RECIP_HOSP_ICUDAY_51105
RECIP_HOSP_ICUDAY_51112          RECIP_HOSP_ICUDAY_51119          RECIP_HOSP_ICUDAY_51126
                    RECIP_HOSP_ICUDAY_52336          RECIP_HOSP_ICUDAY_52343
RECIP_HOSP_ICUDAY_52350          RECIP_HOSP_ICUDAY_52357;

do i=1 to 18;
    if r_compl{i}="1" then do;
        if r_death{i}="1" or r_txp{i}="1" then r_grade{i}=4;
        else if r_disab{i}="1" then r_grade{i}=3;
        else if r_icu_5d{i}="1" or r_hosp_4wk_14d{i}="1" or (r_med{i}="1" and r_medtype{i}
in ("2", "3", "4")) or
                    (r_transfuse{i}="1" and r_bldunit{i}>3) or (r_proc{i}="1" and
r_proctype{i} in ("2", "3", "4"))
                    then r_grade{i}=2;
        else r_grade{i}=1;
    end;
end;

* for complications of grade 4, do chi-square test by LDLT;
array r_grade4{18} RBLCS_GRADE4          RBSCS_GRADE4          RABCS_GRADE4          RGIBCS_GRADE4
RAACS_GRADE4          RICS_GRADE4

                    RBOCS_GRADE4          RRECS_GRADE4          RECS_GRADE4
RASCCS_GRADE4          RHATCS_GRADE4          RPVTCS_GRADE4
                    RIVCTCS_GRADE4          RCRCS_GRADE4          RRECCS_GRADE4
/*RLTCS_GRADE: RMOR_RETXP is not a compliation*/
                    RDVTCS_GRADE4          RNCS_GRADE4          RINFCS_GRADE4;

do i=1 to 18;

```

```

        if r_grade{i}=4 then r_grade4{i}=1; else r_grade4{i}=0;
end;

* for any graded complications, do chi-square test by LDLT;
array r_grade_any{18}      RBLCS_GRADE_any      RBSCS_GRADE_any      RABCS_GRADE_any
      RGIBCS_GRADE_any      RAACS_GRADE_any      RICS_GRADE_any
RECS_GRADE_any            RASCCS_GRADE_any      RHATCS_GRADE_any      RPVTCS_GRADE_any
CCS_GRADE_any            /*RLTCS_GRADE: RMOR_RETXP is not a compliation*/
      RDVTCS_GRADE_any      RNCS_GRADE_any
RINFCS_GRADE_any;
do i=1 to 18;
    if r_grade{i} in (1, 2, 3, 4) then r_grade_any{i}=1; else r_grade_any{i}=0;
end;

* Find: within grade 4 how many complications had led to re-txp or death;
r_retxp=0; r_dead=0;
do i=1 to 18;
    if r_compl{i}="1" then do;
        if r_txp{i}="1" then r_retxp=1;
        if r_death{i}="1" then r_dead=1;
    end;
end;
label r_retxp="Any complication that led to re-txp";
label r_dead="Any complication that led to death";

* combine RMOR_BILE and RMOR_STRICT;
if RMOR_BILE="1" or RMOR_STRICT="1" then Rmor_BL_BS=1;
else if RMOR_BILE="2" and RMOR_STRICT="2" then Rmor_BL_BS=0;
else Rmor_BL_BS= . ;
label Rmor_BL_BS="At least one bile complications";

if RBLCS_GRADE=4 or RBSCS_GRADE=4 then RBL_BS_grade=4;
else if RBLCS_GRADE=3 or RBSCS_GRADE=3 then RBL_BS_grade=3;
else if RBLCS_GRADE=2 or RBSCS_GRADE=2 then RBL_BS_grade=2;
else if RBLCS_GRADE=1 or RBSCS_GRADE=1 then RBL_BS_grade=1;
else RBL_BS_grade=0;
label RBL_BS_grade="Clavien grade for combined bile complications";
/* The code above can be simplified as:
RBL_BS_grade=max(RBLCS_GRADE, RBSCS_GRADE);
if RBL_BS_grade=. then RBL_BS_grade=0;*/

if RBL_BS_grade=4 then RBL_BS_grade4=1; else RBL_BS_grade4=0;
label RBL_BS_grade4="Grade 4 bile complications: 1=yes, 0=no";

if RBL_BS_grade in (1, 2, 3, 4) then RBL_BS_grade_any=1; else RBL_BS_grade_any=0;
label RBL_BS_grade_any="Any grade of bile complications: 1=yes, 0=no";

* combine RMOR_HAT and RMOR_PVT and RMOR_IVCT;
if RMOR_HAT="1" or RMOR_PVT="1" or RMOR_IVCT="1" then Rmor_VSCL=1; else Rmor_VSCL=0;
label Rmor_VSCL="At least one of RMOR_HAT or RMOR_PVT or RMOR_IVCT";

if RHATCS_GRADE=4 or RPVTCS_GRADE=4 or RIVCTCS_GRADE=4 then RVSCL_grade=4;
else if RHATCS_GRADE=3 or RPVTCS_GRADE=3 or RIVCTCS_GRADE=3 then RVSCL_grade=3;
else if RHATCS_GRADE=2 or RPVTCS_GRADE=2 or RIVCTCS_GRADE=2 then RVSCL_grade=2;
else if RHATCS_GRADE=1 or RPVTCS_GRADE=1 or RIVCTCS_GRADE=1 then RVSCL_grade=1;
else RVSCL_grade=0;
label RVSCL_grade="Clavien grade for combined vascular complications";

if RVSCL_grade=4 then RVSCL_grade4=1; else RVSCL_grade4=0;
label RVSCL_grade4="Grade 4 combined vascular complications: 1=yes, 0=no";

if RVSCL_grade in (1, 2, 3, 4) then RVSCL_grade_any=1; else RVSCL_grade_any=0;
label RVSCL_grade_any="Any Grade grade of combined vascular complications: 1=yes, 0=no";
RUN;

* get freqs of new variables *;

```

```

ods rtf file='\\rcdubuntu01.rtp.rti.org\niddk\03_Data_And_Tools\Studies\A2ALL\working
archive\Analysis data - by NIDDK\outcomes T3 T4ab freqs.rtf' style=minimal;
title A2ALL RECIP_ALL, freqs for vars in TABLE 3,4A,& 4B;
PROC FREQ DATA=RECIP_ALL;TABLES
RMOR_GIBLD_2--RVSCL_grade_any; RUN;
ods rtf close; run;

* compare to previously saved dataset *;
libname old '\\rcdubuntu01.rtp.rti.org\niddk\03_Data_And_Tools\Studies\A2ALL\working
archive\Analysis data - by NIDDK\boneyard 5-27-10';
ods rtf file='\\rcdubuntu01.rtp.rti.org\niddk\03_Data_And_Tools\Studies\A2ALL\working
archive\Analysis data - by NIDDK\compare prev with current data.rtf' style=minimal;
title Compare A2ALL transformed recip dataset from 5/27/10 with current 10/18/10;
PROC COMPARE BASE=old.RECIP_ALL COMPARE=RECIP_ALL LISTOBS LISTVAR maxprint=(400,32000); ID
RESP_ID; RUN;
ods rtf close; run;

* get contents listing for new dataset *;
ods rtf file='\\rcdubuntu01.rtp.rti.org\niddk\03_Data_And_Tools\Studies\A2ALL\working
archive\Analysis data - by NIDDK\dataset contents.rtf' style=minimal;
proc contents position data=recip_all; title CONTENTS OF RECIP_ALL DATASET WITH ADDITIONAL
VARIABLE CODE;
RUN;
ods rtf close; run;

* save dataset *;
* previous version saved in boneyard 5-27-10 subdirectory *;
DATA A2ANAL.RECIP_ALL; SET RECIP_ALL; RUN;

* export saved dataset to Stata (use SAS v9.2...) *;
* note: only numeric date labels will transfer at this time, Stata does not take character labels
*;

PROC EXPORT DATA= A2ANAL.RECIP_ALL
OUTFILE= "\\rcdubuntu01.rtp.rti.org\niddk\03_Data_And_Tools\Studies\A2ALL\working
archive\Analysis data - by NIDDK\Stata\recip_all.dta"
DBMS=STATA REPLACE;
RUN;

```

# APPENDIX C

## Stata Output for DSIC ANALYSES

```
-----
name: <unnamed>
log: C:\A2ALL_Files_No_Data_MASTER\NEW_Oct_2010\DSIC_New_v13.log
log type: text
opened on: 18 Oct 2010, 18:49:52
```

```
. gen rawdate = don_hp_date
. sort rawdate
. list rawdate don_hp_date in 1/10
```

```

+-----+
| rawdate  don_hp_~e |
+-----+
1. | 13921  11 Feb 98 |
2. | 13970  01 Apr 98 |
3. | 13982  13 Apr 98 |
4. | 14012  13 May 98 |
5. | 14027  28 May 98 |
+-----+
6. | 14035  05 Jun 98 |
7. | 14038  08 Jun 98 |
8. | 14039  09 Jun 98 |
9. | 14053  23 Jun 98 |
10. | 14070  10 Jul 98 |
+-----+
```

```
. drop if rawdate > 15764
(8 observations deleted)
```

```
. tab don_hp_date in 1/10
```

```

27847: |
donor h&p |
date |          Freq.      Percent      Cum.
-----+-----
11 Feb 98 |             1         10.00       10.00
01 Apr 98 |             1         10.00       20.00
13 Apr 98 |             1         10.00       30.00
13 May 98 |             1         10.00       40.00
28 May 98 |             1         10.00       50.00
05 Jun 98 |             1         10.00       60.00
08 Jun 98 |             1         10.00       70.00
09 Jun 98 |             1         10.00       80.00
23 Jun 98 |             1         10.00       90.00
10 Jul 98 |             1         10.00      100.00
-----+-----
Total |             10         100.00
```

```
. tab don_hp_date if rawdate > 15755
```

```

27847: |
donor h&p |
date |          Freq.      Percent      Cum.
-----+-----
24 Feb 03 |             2         40.00       40.00
25 Feb 03 |             2         40.00       80.00
26 Feb 03 |             1         20.00      100.00
-----+-----
Total |             5         100.00
```

```
. generate missing_don_hp_date = 0

. replace missing_don_hp_date = 1 if don_hp_date == .
(0 real changes made)
```

```
. tab missing_don_hp_date
```

missing_don _hp_date	Freq.	Percent	Cum.
0	799	100.00	100.00
Total	799	100.00	

```
. tab ldlt ddlt, missing
```

exclusion criterion	exclusion criterion incl dominoes and splits		Total
	0	1	
0	200	216	416
1	383	0	383
Total	583	216	799

```
. generate group = (10*ddlt) + ldlt
```

```
. recode group ( 0 = .)
(group: 200 changes made)
```

```
. label define group 10"DDLTL" 1"LDLTL"
```

```
. label values group group
```

```
. tab group, missing
```

group	Freq.	Percent	Cum.
LDLTL	383	47.93	47.93
DDLTL	216	27.03	74.97
.	200	25.03	100.00
Total	799	100.00	

```
. list resp_id group ldlt ddlt gout_txp if group==. & gout_txp ~= .
```

	resp_id	group	ldlt	ddlt	gout_txp
243.	2331	.	0	0	11 Jan 01
784.	4168	.	0	0	29 May 03

```
. drop if group == .
(200 observations deleted)
```

```
. tab group, missing
```

group	Freq.	Percent	Cum.
LDLTL	383	63.94	63.94
DDLTL	216	36.06	100.00

```
-----+-----
Total |          599          100.00
```

```
.
. gen year_transplant = yofd(gout_txp)
(2 missing values generated)

. gen year_birth = enr_yob

. gen age_at_transplant = year_transplant - year_birth
(2 missing values generated)

.
. list enr_yob gout_txp age_at_transplant in 1/10
```

```
-----+-----
| enr_yob   gout_txp   age_at~t |
-----+-----
1. |      1939   28 May 98         59 |
2. |      1974   02 Sep 98         24 |
3. |      1938   23 Sep 98         60 |
4. |      1954   03 Jun 98         44 |
5. |      1961   08 Jul 98         37 |
-----+-----
6. |      1948   22 Jun 98         50 |
7. |      1979   17 Jun 98         19 |
8. |      1937   04 Aug 98         61 |
9. |      1967   29 Jul 98         31 |
10. |      1965   24 May 98         33 |
-----+-----
```

```
. list enr_yob gout_txp age_at_transplant in 500/510
```

```
-----+-----
| enr_yob   gout_txp   age_at~t |
-----+-----
500. |      1950   28 May 02         52 |
501. |      1962   10 Jul 02         40 |
502. |      1965   01 May 03         38 |
503. |      1945   27 Jun 02         57 |
504. |      1947   22 May 02         55 |
-----+-----
505. |      1956   05 Jun 02         46 |
506. |      1957   09 Sep 02         45 |
507. |      1953   12 Jul 02         49 |
508. |      1950   29 Nov 02         52 |
509. |      1949   09 May 03         54 |
-----+-----
510. |      1973   01 Nov 02         29 |
-----+-----
```

```
. tab age_at_transplant
```

```
age_at_tran |
splant |          Freq.          Percent          Cum.
-----+-----
18 |              1              0.17              0.17
19 |              3              0.50              0.67
20 |              2              0.34              1.01
21 |              2              0.34              1.34
22 |              2              0.34              1.68
23 |              2              0.34              2.01
24 |              3              0.50              2.51
25 |              4              0.67              3.18
```

26		1	0.17	3.35
27		1	0.17	3.52
28		2	0.34	3.85
29		5	0.84	4.69
30		6	1.01	5.70
31		4	0.67	6.37
32		5	0.84	7.20
33		5	0.84	8.04
34		5	0.84	8.88
35		5	0.84	9.72
36		4	0.67	10.39
37		8	1.34	11.73
38		5	0.84	12.56
39		3	0.50	13.07
40		8	1.34	14.41
41		6	1.01	15.41
42		15	2.51	17.92
43		16	2.68	20.60
44		17	2.85	23.45
45		18	3.02	26.47
46		29	4.86	31.32
47		20	3.35	34.67
48		21	3.52	38.19
49		24	4.02	42.21
50		28	4.69	46.90
51		27	4.52	51.42
52		26	4.36	55.78
53		24	4.02	59.80
54		30	5.03	64.82
55		23	3.85	68.68
56		20	3.35	72.03
57		17	2.85	74.87
58		24	4.02	78.89
59		17	2.85	81.74
60		23	3.85	85.59
61		13	2.18	87.77
62		10	1.68	89.45
63		14	2.35	91.79
64		9	1.51	93.30
65		11	1.84	95.14
66		3	0.50	95.64
67		12	2.01	97.65
68		2	0.34	97.99
69		3	0.50	98.49
70		2	0.34	98.83
71		3	0.50	99.33
72		2	0.34	99.66
73		1	0.17	99.83
74		1	0.17	100.00
-----				
Total		597	100.00	

```
. bysort group: summarize age_at_transplant
```

```
-----
---
-> group = LDLT

Variable | Obs      Mean      Std. Dev.      Min      Max
-----+-----
age_at_tra~t | 382    49.54188    10.68627      18      73
-----
---
-> group = DDLT
```



Variable	Obs	Mean	Std. Dev.	Min	Max
age_at_tra~t	215	51.6	9.765378	20	74

. \* pause

. destring recipient\_ethnicity recipient\_race enr\_gender, replace  
recipient\_ethnicity has all characters numeric; replaced as byte  
recipient\_race has all characters numeric; replaced as int  
enr\_gender has all characters numeric; replaced as byte

. label define enr\_gender 1"Male" 2"Female"

. label values enr\_gender enr\_gender

. label define recipient\_ethnicity 1"Hispanic" 2"Non-Hispanic"

. label values recipient\_ethnicity recipient\_ethnicity

. tab recipient\_ethnicity

27742: recipient ethnicity	Freq.	Percent	Cum.
Hispanic	116	19.37	19.37
Non-Hispanic	483	80.63	100.00
Total	599	100.00	

. label define recipient\_race 128 "Hawaii/PI" 16 "Black" 256 "Mid-Eastern" 32  
"Am  
> Indian/Alaskan" 64"Asian" 8"White"

. label values recipient\_race recipient\_race

. generate recipient\_race2 = recipient\_race

. recode recipient\_race2 (32=99) (128=99) (256=99) (32=99)  
(recipient\_race2: 15 changes made)

. label define recipient\_race2 16 "Black" 64"Asian" 8"White" 99"Other"

. label values recipient\_race2 recipient\_race2

. tab recipient\_race recipient\_race2

27743: recipient race	White	Black	Asian	Other	Total
White	537	0	0	0	537
Black	0	25	0	0	25
Am Indian/Alaskan	0	0	0	2	2
Asian	0	0	22	0	22
Hawaii/PI	0	0	0	4	4
Mid-Eastern	0	0	0	9	9
Total	537	25	22	15	599

```
.
. tab group, missing
```

group	Freq.	Percent	Cum.
LDLT	383	63.94	63.94
DDLT	216	36.06	100.00
Total	599	100.00	

```
. drop if group ==.
(0 observations deleted)
```

```
.
. tab enr_gender group, col missing
```

```
+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+
```

40212: enr_gender	group		Total
	LDLT	DDLT	
Male	221	128	349
	57.70	59.26	58.26
Female	162	88	250
	42.30	40.74	41.74
Total	383	216	599
	100.00	100.00	100.00

```
. tab recipient_ethnicity group, col missing
```

```
+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+
```

27742: recipient_ethnicity	group		Total
	LDLT	DDLT	
Hispanic	74	42	116
	19.32	19.44	19.37
Non-Hispanic	309	174	483
	80.68	80.56	80.63
Total	383	216	599
	100.00	100.00	100.00

```
. tab recipient_race2 group, col missing
```

```
+-----+
| Key |
+-----+
| frequency |
+-----+
```

```
| column percentage |
+-----+
```

recipient_ race2	group		Total
	LDLT	DDLT	
White	347 90.60	190 87.96	537 89.65
Black	12 3.13	13 6.02	25 4.17
Asian	15 3.92	7 3.24	22 3.67
Other	9 2.35	6 2.78	15 2.50
Total	383 100.00	216 100.00	599 100.00

```
. bysort group: summarize srs_recip_bmi_enr
```

```
---
-> group = LDLT
```

Variable	Obs	Mean	Std. Dev.	Min	Max
srs_re~i_enr	380	26.671	5.217672	15.20377	45.68693

```
---
-> group = DDLT
```

Variable	Obs	Mean	Std. Dev.	Min	Max
srs_re~i_enr	216	26.8682	5.06985	15.04145	45.51257

```
. #delimit ;
delimiter now ;
. tab1 group recip_dgn_bilat_r_enr recip_dgn_chol_enr
recip_dgn_malig_nonhcc_enr
> recip_dgn_metab_enr
> recip_dgn_othnoncc_enr recip_dgn_alcoh_enr recip_dgn_hcc1_enr
recip_dgn_hcc_e
> nr
> recip_dgn_hcv1_enr recip_dgn_hcv_enr recip_dgn_other_enr if group==1;
```

```
-> tabulation of group if group==1
```

group	Freq.	Percent	Cum.
LDLT	383	100.00	100.00
Total	383	100.00	

```
-> tabulation of recip_dgn_bilat_r_enr if group==1
```

```
recipient |
any dgn |
```

```
(list/enr): |
  biliary |
  atresia |
```

	Freq.	Percent	Cum.
0	380	99.22	99.22
1	3	0.78	100.00
Total	383	100.00	

-> tabulation of recip\_dgn\_chol\_enr if group==1

```
recipient |
  any dgn |
(list/enr): |
cholestatic |
  liver |
disease/cir |
  rho |
```

	Freq.	Percent	Cum.
0	312	81.46	81.46
1	71	18.54	100.00
Total	383	100.00	

-> tabulation of recip\_dgn\_malig\_nonhcc\_enr if group==1

```
recipient |
  any dgn |
(list/enr): |
  malignant |
  neoplasms |
  other than |
  hcc |
```

	Freq.	Percent	Cum.
0	374	97.65	97.65
1	9	2.35	100.00
Total	383	100.00	

-> tabulation of recip\_dgn\_metab\_enr if group==1

```
recipient |
  any dgn |
(list/enr): |
  metabolic |
  diseases |
```

	Freq.	Percent	Cum.
0	372	97.13	97.13
1	11	2.87	100.00
Total	383	100.00	

-> tabulation of recip\_dgn\_othnoncc\_enr if group==1

```
recipient |
  any dgn |
(list/enr): |
non-cholest |
  atic |
  cirrhosis |
  other than |
hcv/alcohol |
```

	Freq.	Percent	Cum.
0	303	79.11	79.11
1	80	20.89	100.00

```
-----+-----
Total |          383          100.00
```

-> tabulation of recip\_dgn\_alcoh\_enr if group==1

```
recipient |
  any dgn |
(list/enr): |
  alcoholic |
  cirrhosis |          Freq.          Percent          Cum.
-----+-----
      0 |          331          86.42          86.42
      1 |           52          13.58          100.00
-----+-----
Total |          383          100.00
```

-> tabulation of recip\_dgn\_hccl1\_enr if group==1

```
recip_dgn_h |
  ccl1_enr |          Freq.          Percent          Cum.
-----+-----
      0 |          333          86.95          86.95
      1 |           50          13.05          100.00
-----+-----
Total |          383          100.00
```

-> tabulation of recip\_dgn\_hcc\_enr if group==1

```
recipient |
  any dgn |
(list/enr): |
  hcc |          Freq.          Percent          Cum.
-----+-----
      0 |          326          85.12          85.12
      1 |           57          14.88          100.00
-----+-----
Total |          383          100.00
```

-> tabulation of recip\_dgn\_hcv1\_enr if group==1

```
recip_dgn_h |
  cv1_enr |          Freq.          Percent          Cum.
-----+-----
      0 |          209          54.57          54.57
      1 |          174          45.43          100.00
-----+-----
Total |          383          100.00
```

-> tabulation of recip\_dgn\_hcv\_enr if group==1

```
recipient |
  any dgn |
(list/enr): |
hepatitis c |          Freq.          Percent          Cum.
-----+-----
      0 |          200          52.22          52.22
      1 |          183          47.78          100.00
-----+-----
Total |          383          100.00
```

-> tabulation of recip\_dgn\_other\_enr if group==1

```
recipient |
  any dgn |
(list/enr): |
```

other	Freq.	Percent	Cum.
0	373	97.39	97.39
1	10	2.61	100.00
<b>Total</b>	<b>383</b>	<b>100.00</b>	

```
. #delimit ;
delimiter now ;
. tab1 group recip_dgn_bilatr_enr recip_dgn_chol_enr
recip_dgn_malig_nonhcc_enr
> recip_dgn_metab_enr
> recip_dgn_othnoncc_enr recip_dgn_alcoh_enr recip_dgn_hccl1_enr
recip_dgn_hcc_e
> nr
> recip_dgn_hcv1_enr recip_dgn_hcv_enr recip_dgn_other_enr if group==10;
```

-> tabulation of group if group==10

group	Freq.	Percent	Cum.
DDL1	216	100.00	100.00
<b>Total</b>	<b>216</b>	<b>100.00</b>	

-> tabulation of recip\_dgn\_bilatr\_enr if group==10

```
recipient |
  any dgn |
(list/enr): |
  biliary |
  atresia |
Freq.      Percent      Cum.
-----+-----
```

0	216	100.00	100.00
<b>Total</b>	<b>216</b>	<b>100.00</b>	

-> tabulation of recip\_dgn\_chol\_enr if group==10

```
recipient |
  any dgn |
(list/enr): |
cholestatic |
  liver |
disease/cir |
  rho |
Freq.      Percent      Cum.
-----+-----
```

0	178	82.41	82.41
1	38	17.59	100.00
<b>Total</b>	<b>216</b>	<b>100.00</b>	

-> tabulation of recip\_dgn\_malig\_nonhcc\_enr if group==10

```
recipient |
  any dgn |
(list/enr): |
  malignant |
  neoplasms |
  other than |
  hcc |
Freq.      Percent      Cum.
-----+-----
```

0	213	98.61	98.61
1	3	1.39	100.00

Total | 216 100.00

-> tabulation of recip\_dgn\_metab\_enr if group==10

```
recipient |
any dgn |
(list/enr): |
metabolic |
diseases |
```

	Freq.	Percent	Cum.
0	209	96.76	96.76
1	7	3.24	100.00
Total	216	100.00	

-> tabulation of recip\_dgn\_othnoncc\_enr if group==10

```
recipient |
any dgn |
(list/enr): |
non-cholest |
atic |
cirrhosis |
other than |
hcv/alcohol |
```

	Freq.	Percent	Cum.
0	168	77.78	77.78
1	48	22.22	100.00
Total	216	100.00	

-> tabulation of recip\_dgn\_alcoh\_enr if group==10

```
recipient |
any dgn |
(list/enr): |
alcoholic |
cirrhosis |
```

	Freq.	Percent	Cum.
0	184	85.19	85.19
1	32	14.81	100.00
Total	216	100.00	

-> tabulation of recip\_dgn\_hcc1\_enr if group==10

```
recip_dgn_h |
ccl1_enr |
```

	Freq.	Percent	Cum.
0	188	87.04	87.04
1	28	12.96	100.00
Total	216	100.00	

-> tabulation of recip\_dgn\_hcc\_enr if group==10

```
recipient |
any dgn |
(list/enr): |
hcc |
```

	Freq.	Percent	Cum.
0	183	84.72	84.72
1	33	15.28	100.00
Total	216	100.00	

-> tabulation of recip\_dgn\_hcv1\_enr if group==10

recip_dgn_h cv1_enr	Freq.	Percent	Cum.
0	124	57.41	57.41
1	92	42.59	100.00
Total	216	100.00	

-> tabulation of recip\_dgn\_hcv\_enr if group==10

recipient any dgn (list/enr): hepatitis c	Freq.	Percent	Cum.
0	113	52.31	52.31
1	103	47.69	100.00
Total	216	100.00	

-> tabulation of recip\_dgn\_other\_enr if group==10

recipient any dgn (list/enr): other	Freq.	Percent	Cum.
0	211	97.69	97.69
1	5	2.31	100.00
Total	216	100.00	

. #delimit cr  
delimiter now cr

. deststring rct\_medcond, replace  
rct\_medcond has all characters numeric; replaced as byte

. label define rct\_medcond 1"ICU" 2"Hosp not ICU" 3"Not Hosp"

. label values rct\_medcond rct\_medcond

. tab rct\_medcond group, col

```

+-----+
| Key          |
+-----+
| frequency    |
| column percentage |
+-----+

```

27900: recipient medical condition immediately prior to transplant	group		Total
	LDLT	DDLT	
ICU	7	40	47
	1.83	18.52	7.85
Hosp not ICU	42	48	90



	10.97	22.22	15.03
Not Hosp	334	128	462
	87.21	59.26	77.13
Total	383	216	599
	100.00	100.00	100.00

. \* pause

. destring rct\_vent rct\_dialyze rct\_ascites, replace  
rct\_vent has all characters numeric; replaced as byte  
rct\_dialyze has all characters numeric; replaced as byte  
(1 missing value generated)  
rct\_ascites has all characters numeric; replaced as int  
(4 missing values generated)

. label define yes\_no 1"Yes" 2"No" 998"Unknown"

. label values rct\_vent rct\_dialyze rct\_ascites yes\_no

. tab rct\_vent group, col

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

```

27902: |
recipient |
on |
ventilator |
immediatel |
y prior to |
transplant |

```

	group		Total
	LDLT	DDLT	
Yes	5	17	22
	1.31	7.87	3.67
No	378	199	577
	98.69	92.13	96.33
Total	383	216	599
	100.00	100.00	100.00

. tab rct\_dialyze group, col

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

```

27918: |
recipient |
dialysis |
at |
transplant |

```

	group		Total
	LDLT	DDLT	
Yes	5	16	21

	1.31	7.44	3.51
No	378	199	577
	98.69	92.56	96.49
Total	383	215	598
	100.00	100.00	100.00

```
. tab rct_ascites group, col
```

```
+-----+
| Key   |
+-----+
|       |
| frequency |
| column percentage |
+-----+
```

```
27764: |
recipient |
ascites |
```

	group		Total
	LDLT	DDLT	
Yes	222	160	382
	58.12	75.12	64.20
No	155	53	208
	40.58	24.88	34.96
Unknown	5	0	5
	1.31	0.00	0.84
Total	382	213	595
	100.00	100.00	100.00

```
. bysort group: summarize rio_cit
```

```
-----
---
-> group = LDLT
```

Variable	Obs	Mean	Std. Dev.	Min	Max
rio_cit	278	84.01079	95.01383	10	720

```
-----
---
-> group = DDLT
```

Variable	Obs	Mean	Std. Dev.	Min	Max
rio_cit	198	473.8232	181.4078	75	1230

```
. recode rio_oplength (0=.)
(rio_oplength: 1 changes made)
```

```
. bysort group: summarize rio_oplength
```

```
-----
---
-> group = LDLT
```

Variable	Obs	Mean	Std. Dev.	Min	Max
rio_oplength	345	506.487	127.2979	198	948

```

---
-> group = DDLT

```

Variable	Obs	Mean	Std. Dev.	Min	Max
rio_oplength	202	369.2277	94.03867	138	735

```

.
. gen meld_txp_category = meld_txp
(19 missing values generated)

. recode meld_txp_category (0/5=4) (6/10=6) (11/20=11) (21/30=21) (31/40=31)
(meld_txp_category: 515 changes made)

. tab meld_txp meld_txp_category

```

meld at transplant (max 40)	meld_txp_category				Total
	6	11	21	31	
6	16	0	0	0	16
7	21	0	0	0	21
8	18	0	0	0	18
9	27	0	0	0	27
10	20	0	0	0	20
11	0	29	0	0	29
12	0	37	0	0	37
13	0	41	0	0	41
14	0	42	0	0	42
15	0	40	0	0	40
16	0	33	0	0	33
17	0	33	0	0	33
18	0	24	0	0	24
19	0	30	0	0	30
20	0	24	0	0	24
21	0	0	16	0	16
22	0	0	15	0	15
23	0	0	11	0	11
24	0	0	10	0	10
25	0	0	10	0	10
26	0	0	7	0	7
27	0	0	9	0	9
28	0	0	3	0	3
29	0	0	8	0	8
30	0	0	5	0	5
31	0	0	0	4	4
32	0	0	0	6	6
34	0	0	0	5	5
35	0	0	0	5	5
36	0	0	0	5	5
37	0	0	0	2	2
38	0	0	0	3	3
39	0	0	0	3	3
40	0	0	0	18	18
Total	102	333	94	51	580

```

. tab meld_txp_category group, col missing

```

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

meld_txp_c category	group		Total
	LDLT	DDLT	
6	80 20.89	22 10.19	102 17.03
11	230 60.05	103 47.69	333 55.59
21	48 12.53	46 21.30	94 15.69
31	10 2.61	41 18.98	51 8.51
.	15 3.92	4 1.85	19 3.17
Total	383 100.00	216 100.00	599 100.00

```
. bysort group: summarize meld_txp
```

```

-----
---
-> group = LDLT

Variable |      Obs      Mean   Std. Dev.   Min   Max
-----+-----
meld_txp |      368  15.21467   6.293468     6    40

```

```

-----
---
-> group = DDLT

Variable |      Obs      Mean   Std. Dev.   Min   Max
-----+-----
meld_txp |      212     21   9.424683     6    40

```

```
. describe meld_txp_score_missing - rvscl_grade_any
```

variable name	storage type	display format	value label	variable label
meld_txp_scor	byte	%8.0g	1 if meld at txp missing creat/inr/bili	
bil_anas_site	byte	%8.0g	biliary anastomosis site	
category:			1=all roux, 0=not-all roux	
rmor_gibld_2	str1	%1s		
rmor_vwound	str1	%1s		
r_tot_comp (including	byte	%8.0g	* number of complications comp. that can be graded and	

those that canno

i byte %8.0g  
number\_of\_com~s byte %8.0g  
r\_tot\_comp\_cat byte %8.0g  
r\_tot\_comp\_cat2 byte %8.0g  
r\_tot\_comp\_cat3 byte %8.0g  
r\_tot\_comp\_cat4 byte %8.0g  
r\_any\_bacte byte %8.0g  
  
r\_any\_viral byte %8.0g  
  
r\_any\_fungl byte %8.0g  
  
reexplore\_new byte %8.0g  
rblcs\_grade byte %8.0g  
rbscs\_grade byte %8.0g  
rabcs\_grade byte %8.0g  
rgibcs\_grade byte %8.0g  
raacs\_grade byte %8.0g  
rics\_grade byte %8.0g  
rbocs\_grade byte %8.0g  
rrecs\_grade byte %8.0g  
recs\_grade byte %8.0g  
rasccs\_grade byte %8.0g  
rhatcs\_grade byte %8.0g  
rpvtcs\_grade byte %8.0g  
rivtcs\_grade byte %8.0g  
rcrcs\_grade byte %8.0g  
rreccs\_grade byte %8.0g  
rdvtcs\_grade byte %8.0g  
rnccs\_grade byte %8.0g  
rinccs\_grade byte %8.0g  
rbocs\_grade4 byte %8.0g  
rblcs\_grade4 byte %8.0g  
rbscs\_grade4 byte %8.0g  
rabcs\_grade4 byte %8.0g  
rgibcs\_grade4 byte %8.0g  
raacs\_grade4 byte %8.0g  
rics\_grade4 byte %8.0g  
rbocs\_grade4 byte %8.0g  
rrecs\_grade4 byte %8.0g  
recs\_grade4 byte %8.0g  
rasccs\_grade4 byte %8.0g  
rhatcs\_grade4 byte %8.0g  
rpvtcs\_grade4 byte %8.0g  
rivtcs\_grade4 byte %8.0g  
rcrcs\_grade4 byte %8.0g  
rreccs\_grade4 byte %8.0g  
rdvtcs\_grade4 byte %8.0g  
rnccs\_grade4 byte %8.0g  
rinccs\_grade4 byte %8.0g  
rblcs\_grade\_any byte %8.0g  
rbscs\_grade\_any byte %8.0g  
rabcs\_grade\_any byte %8.0g  
rgibcs\_grade\_~y byte %8.0g  
raacs\_grade\_any byte %8.0g  
rics\_grade\_any byte %8.0g  
rbocs\_grade\_any byte %8.0g  
rrecs\_grade\_any byte %8.0g  
recs\_grade\_any byte %8.0g  
rasccs\_grade\_~y byte %8.0g  
rhatcs\_grade\_~y byte %8.0g  
rpvtcs\_grade\_~y byte %8.0g  
rivtcs\_grade\_~y byte %8.0g  
rcrcs\_grade\_any byte %8.0g

if any complication  
if >= 6 complications  
pts with at least one bacterial  
infection  
pts with at least one viral  
infection  
pts with at least one fungal  
infection

```

rrecs_grade_~y byte %8.0g
rdvtcs_grade_~y byte %8.0g
rnccs_grade_any byte %8.0g
rinfcs_grade_~y byte %8.0g
r_retxp byte %8.0g any complication that led to
re-txp
r_dead byte %8.0g any complication that led to
death
rmor_bl_bs byte %8.0g at least one bile complications
rbl_bs_grade byte %8.0g clavien grade for combined bile
complications
rbl_bs_grade4 byte %8.0g grade 4 bile complications:
1=yes, 0=no
rbl_bs_grade_~y byte %8.0g any grade of bile complications:
1=yes, 0=no
rmor_vscl byte %8.0g at least one of rmor_hat or
rmor_pvt or rmor_ivct
rvscl_grade byte %8.0g clavien grade for combined
vascular complications
rvscl_grade4 byte %8.0g grade 4 combined vascular
complications: 1=yes, 0=no
rvscl_grade_any byte %8.0g any grade grade of combined
vascular complications: 1=yes,
0=no

```

```
. tab1 meld_txp_score_missing - rvscl_grade_any
```

```
-> tabulation of meld_txp_score_missing
```

```

1 if meld |
at txp |
missing |
creat/inr/b |
ili | Freq. Percent Cum.
-----+-----
0 | 580 96.83 96.83
1 | 19 3.17 100.00
-----+-----
Total | 599 100.00

```

```
-> tabulation of bil_anas_site_cat
```

```

biliary |
anastomosis |
site |
category: |
1=all roux, |
0=not-all |
roux | Freq. Percent Cum.
-----+-----
0 | 184 47.79 47.79
1 | 201 52.21 100.00
-----+-----
Total | 385 100.00

```

```
-> tabulation of rmor_gibld_2
```

```

rmor_gibld_ |
2 | Freq. Percent Cum.
-----+-----
1 | 42 7.17 7.17
2 | 544 92.83 100.00
-----+-----

```

Total | 586 100.00

-> tabulation of rmor\_vwound  
no observations

-> tabulation of r\_tot\_comp

number of complications (including comp. that can be graded and those that cannot)	Freq.	Percent	Cum.
0	104	17.36	17.36
1	97	16.19	33.56
2	97	16.19	49.75
3	64	10.68	60.43
4	52	8.68	69.12
5	42	7.01	76.13
6	26	4.34	80.47
7	31	5.18	85.64
8	20	3.34	88.98
9	20	3.34	92.32
10	16	2.67	94.99
11	13	2.17	97.16
12	7	1.17	98.33
13	4	0.67	99.00
14	2	0.33	99.33
15	2	0.33	99.67
16	2	0.33	100.00
Total	599	100.00	

-> tabulation of i

i	Freq.	Percent	Cum.
19	599	100.00	100.00
Total	599	100.00	

-> tabulation of number\_of\_complications

number_of_complications	Freq.	Percent	Cum.
0	104	17.36	17.36
1	97	16.19	33.56
2	97	16.19	49.75
3	64	10.68	60.43
4	52	8.68	69.12
5	42	7.01	76.13
6	26	4.34	80.47
7	31	5.18	85.64
8	20	3.34	88.98
9	20	3.34	92.32
10	16	2.67	94.99
11	13	2.17	97.16
12	7	1.17	98.33
13	4	0.67	99.00

14	2	0.33	99.33
15	2	0.33	99.67
16	2	0.33	100.00
-----			
Total	599	100.00	

-> tabulation of r\_tot\_comp\_cat

r_tot_comp_cat	Freq.	Percent	Cum.
0	104	17.36	17.36
1	97	16.19	33.56
2	97	16.19	49.75
3	64	10.68	60.43
4	52	8.68	69.12
5	42	7.01	76.13
7	143	23.87	100.00
-----			
Total	599	100.00	

-> tabulation of r\_tot\_comp\_cat2

r_tot_comp_cat2	Freq.	Percent	Cum.
0	104	17.36	17.36
1	97	16.19	33.56
2	97	16.19	49.75
3	64	10.68	60.43
4	52	8.68	69.12
5	42	7.01	76.13
6	26	4.34	80.47
7	31	5.18	85.64
8	20	3.34	88.98
9	20	3.34	92.32
11	46	7.68	100.00
-----			
Total	599	100.00	

-> tabulation of r\_tot\_comp\_cat3

if any complication	Freq.	Percent	Cum.
0	104	17.36	17.36
1	495	82.64	100.00
-----			
Total	599	100.00	

-> tabulation of r\_tot\_comp\_cat4

if >= 6 complications	Freq.	Percent	Cum.
0	456	76.13	76.13
1	143	23.87	100.00
-----			
Total	599	100.00	

-> tabulation of r\_any\_bacte

pts with at |



least one bacterial infection	Freq.	Percent	Cum.
0	383	63.94	63.94
1	216	36.06	100.00
Total	599	100.00	

-> tabulation of r\_any\_viral

pts with at least one viral infection	Freq.	Percent	Cum.
0	572	95.49	95.49
1	27	4.51	100.00
Total	599	100.00	

-> tabulation of r\_any\_fungl

pts with at least one fungal infection	Freq.	Percent	Cum.
0	539	89.98	89.98
1	60	10.02	100.00
Total	599	100.00	

-> tabulation of reexplore\_new

reexplore_new	Freq.	Percent	Cum.
0	449	76.23	76.23
1	140	23.77	100.00
Total	589	100.00	

-> tabulation of rblcs\_grade

rblcs_grade	Freq.	Percent	Cum.
1	15	10.42	10.42
2	99	68.75	79.17
3	14	9.72	88.89
4	16	11.11	100.00
Total	144	100.00	

-> tabulation of rbscs\_grade

rbscs_grade	Freq.	Percent	Cum.
1	3	2.70	2.70
2	86	77.48	80.18
3	16	14.41	94.59
4	6	5.41	100.00
Total	111	100.00	

-> tabulation of rabcs\_grade

rabcs_grade	Freq.	Percent	Cum.
2	36	80.00	80.00
3	1	2.22	82.22
4	8	17.78	100.00
Total	45	100.00	

-> tabulation of rgibcs\_grade

rgibcs_grad e	Freq.	Percent	Cum.
1	4	9.52	9.52
2	28	66.67	76.19
3	3	7.14	83.33
4	7	16.67	100.00
Total	42	100.00	

-> tabulation of raacs\_grade

raacs_grade	Freq.	Percent	Cum.
1	1	2.22	2.22
2	27	60.00	62.22
3	8	17.78	80.00
4	9	20.00	100.00
Total	45	100.00	

-> tabulation of rics\_grade

rics_grade	Freq.	Percent	Cum.
1	16	61.54	61.54
2	4	15.38	76.92
3	2	7.69	84.62
4	4	15.38	100.00
Total	26	100.00	

-> tabulation of rbocs\_grade

rbocs_grade	Freq.	Percent	Cum.
1	7	38.89	38.89
2	9	50.00	88.89
3	2	11.11	100.00
Total	18	100.00	

-> tabulation of rrecs\_grade

rrecs_grade	Freq.	Percent	Cum.
1	9	6.98	6.98
2	95	73.64	80.62
3	7	5.43	86.05
4	18	13.95	100.00
Total	129	100.00	

-> tabulation of recs\_grade

recs_grade	Freq.	Percent	Cum.
1	10	25.00	25.00
2	16	40.00	65.00
3	5	12.50	77.50
4	9	22.50	100.00
Total	40	100.00	

-> tabulation of rasccs\_grade

rasccs_grad e	Freq.	Percent	Cum.
1	39	42.39	42.39
2	28	30.43	72.83
3	12	13.04	85.87
4	13	14.13	100.00
Total	92	100.00	

-> tabulation of rhatcs\_grade

rhatcs_grad e	Freq.	Percent	Cum.
2	8	26.67	26.67
3	1	3.33	30.00
4	21	70.00	100.00
Total	30	100.00	

-> tabulation of rpvtcs\_grade

rpvtcs_grad e	Freq.	Percent	Cum.
2	6	54.55	54.55
4	5	45.45	100.00
Total	11	100.00	

-> tabulation of rivtcs\_grade

rivtcs_gra de	Freq.	Percent	Cum.
1	1	14.29	14.29
2	4	57.14	71.43
4	2	28.57	100.00
Total	7	100.00	

-> tabulation of rrcrs\_grade

rrcrs_grade	Freq.	Percent	Cum.
1	22	66.67	66.67
2	5	15.15	81.82
3	2	6.06	87.88
4	4	12.12	100.00
Total	33	100.00	

-> tabulation of rreccs\_grade

rreccs_grad e	Freq.	Percent	Cum.
1	9	39.13	39.13
2	2	8.70	47.83
3	5	21.74	69.57
4	7	30.43	100.00
Total	23	100.00	

-> tabulation of rdvtcs\_grade

rdvtcs_grad e	Freq.	Percent	Cum.
1	1	11.11	11.11
2	6	66.67	77.78
4	2	22.22	100.00
Total	9	100.00	

-> tabulation of rnccs\_grade

rnccs_grade	Freq.	Percent	Cum.
1	4	33.33	33.33
2	2	16.67	50.00
3	6	50.00	100.00
Total	12	100.00	

-> tabulation of rinfcs\_grade

rinfcs_grad e	Freq.	Percent	Cum.
1	25	10.73	10.73
2	161	69.10	79.83
3	13	5.58	85.41
4	34	14.59	100.00
Total	233	100.00	

-> tabulation of rboocs\_prbc

no observations

-> tabulation of rblcs\_grade4

rblcs_grade 4	Freq.	Percent	Cum.
0	583	97.33	97.33
1	16	2.67	100.00
Total	599	100.00	

-> tabulation of rbscs\_grade4

rbscs_grade 4	Freq.	Percent	Cum.
0	593	99.00	99.00
1	6	1.00	100.00

```
-----+-----
Total |          599      100.00
```

-> tabulation of rabcs\_grade4

```
rabcs_grade |
  4 |          Freq.      Percent      Cum.
-----+-----
  0 |          591      98.66      98.66
  1 |           8       1.34     100.00
-----+-----
Total |          599      100.00
```

-> tabulation of rgibcs\_grade4

```
rgibcs_grad |
  e4 |          Freq.      Percent      Cum.
-----+-----
  0 |          592      98.83      98.83
  1 |           7       1.17     100.00
-----+-----
Total |          599      100.00
```

-> tabulation of raacs\_grade4

```
raacs_grade |
  4 |          Freq.      Percent      Cum.
-----+-----
  0 |          590      98.50      98.50
  1 |           9       1.50     100.00
-----+-----
Total |          599      100.00
```

-> tabulation of rics\_grade4

```
rics_grade4 |          Freq.      Percent      Cum.
-----+-----
  0 |          595      99.33      99.33
  1 |           4       0.67     100.00
-----+-----
Total |          599      100.00
```

-> tabulation of rbocs\_grade4

```
rbocs_grade |
  4 |          Freq.      Percent      Cum.
-----+-----
  0 |          599     100.00     100.00
-----+-----
Total |          599     100.00
```

-> tabulation of rrecs\_grade4

```
rrecs_grade |
  4 |          Freq.      Percent      Cum.
-----+-----
  0 |          581      96.99      96.99
  1 |           18       3.01     100.00
-----+-----
Total |          599     100.00
```

-> tabulation of recs\_grade4

```
recs_grade4 |          Freq.      Percent      Cum.
-----+-----
```

0	590	98.50	98.50
1	9	1.50	100.00
-----			
Total	599	100.00	

-> tabulation of rasccs\_grade4

rasccs_grad e4	Freq.	Percent	Cum.
0	586	97.83	97.83
1	13	2.17	100.00
-----			
Total	599	100.00	

-> tabulation of rhatcs\_grade4

rhatcs_grad e4	Freq.	Percent	Cum.
0	578	96.49	96.49
1	21	3.51	100.00
-----			
Total	599	100.00	

-> tabulation of rpvtcs\_grade4

rpvtcs_grad e4	Freq.	Percent	Cum.
0	594	99.17	99.17
1	5	0.83	100.00
-----			
Total	599	100.00	

-> tabulation of rivtcs\_grade4

rivtcs_gra de4	Freq.	Percent	Cum.
0	597	99.67	99.67
1	2	0.33	100.00
-----			
Total	599	100.00	

-> tabulation of rcracs\_grade4

rcracs_grade 4	Freq.	Percent	Cum.
0	595	99.33	99.33
1	4	0.67	100.00
-----			
Total	599	100.00	

-> tabulation of rreccs\_grade4

rreccs_grad e4	Freq.	Percent	Cum.
0	592	98.83	98.83
1	7	1.17	100.00
-----			
Total	599	100.00	

-> tabulation of rdvtcs\_grade4

rdvtcs_grad e4	Freq.	Percent	Cum.
0	597	99.67	99.67
1	2	0.33	100.00
Total	599	100.00	

-> tabulation of rnscs\_grade4

rnscs_grade4	Freq.	Percent	Cum.
0	599	100.00	100.00
Total	599	100.00	

-> tabulation of rinfcscs\_grade4

rinfcscs_grad e4	Freq.	Percent	Cum.
0	565	94.32	94.32
1	34	5.68	100.00
Total	599	100.00	

-> tabulation of rblcs\_grade\_any

rblcs_grade _any	Freq.	Percent	Cum.
0	455	75.96	75.96
1	144	24.04	100.00
Total	599	100.00	

-> tabulation of rbscs\_grade\_any

rbscs_grade _any	Freq.	Percent	Cum.
0	488	81.47	81.47
1	111	18.53	100.00
Total	599	100.00	

-> tabulation of rabcs\_grade\_any

rabcs_grade _any	Freq.	Percent	Cum.
0	554	92.49	92.49
1	45	7.51	100.00
Total	599	100.00	

-> tabulation of rgibcs\_grade\_any

rgibcs_grad e_any	Freq.	Percent	Cum.
0	557	92.99	92.99
1	42	7.01	100.00

Total	599	100.00
-------	-----	--------

-> tabulation of raacs\_grade\_any

raacs_grade _any	Freq.	Percent	Cum.
0	554	92.49	92.49
1	45	7.51	100.00
Total	599	100.00	

-> tabulation of rics\_grade\_any

rics_grade_ any	Freq.	Percent	Cum.
0	573	95.66	95.66
1	26	4.34	100.00
Total	599	100.00	

-> tabulation of rbocs\_grade\_any

rbocs_grade_ _any	Freq.	Percent	Cum.
0	581	96.99	96.99
1	18	3.01	100.00
Total	599	100.00	

-> tabulation of rrecs\_grade\_any

rrecs_grade_ _any	Freq.	Percent	Cum.
0	470	78.46	78.46
1	129	21.54	100.00
Total	599	100.00	

-> tabulation of recs\_grade\_any

recs_grade_ any	Freq.	Percent	Cum.
0	559	93.32	93.32
1	40	6.68	100.00
Total	599	100.00	

-> tabulation of rasccs\_grade\_any

rasccs_grad e_any	Freq.	Percent	Cum.
0	507	84.64	84.64
1	92	15.36	100.00
Total	599	100.00	

-> tabulation of rhatcs\_grade\_any



rhatcs_grad e_any	Freq.	Percent	Cum.
0	569	94.99	94.99
1	30	5.01	100.00
Total	599	100.00	

-> tabulation of rpvtcs\_grade\_any

rpvtcs_grad e_any	Freq.	Percent	Cum.
0	588	98.16	98.16
1	11	1.84	100.00
Total	599	100.00	

-> tabulation of rivtcs\_grade\_any

rivtcs_gra de_any	Freq.	Percent	Cum.
0	592	98.83	98.83
1	7	1.17	100.00
Total	599	100.00	

-> tabulation of rrcrcs\_grade\_any

rrcrcs_grade _any	Freq.	Percent	Cum.
0	566	94.49	94.49
1	33	5.51	100.00
Total	599	100.00	

-> tabulation of rreccs\_grade\_any

rreccs_grad e_any	Freq.	Percent	Cum.
0	576	96.16	96.16
1	23	3.84	100.00
Total	599	100.00	

-> tabulation of rdvtcs\_grade\_any

rdvtcs_grad e_any	Freq.	Percent	Cum.
0	590	98.50	98.50
1	9	1.50	100.00
Total	599	100.00	

-> tabulation of rnccs\_grade\_any

rnccs_grade_ any	Freq.	Percent	Cum.
0	587	98.00	98.00
1	12	2.00	100.00

Total	599	100.00
-------	-----	--------

-> tabulation of rinfcs\_grade\_any

rinfcs_grade_any	Freq.	Percent	Cum.
0	366	61.10	61.10
1	233	38.90	100.00
Total	599	100.00	

-> tabulation of r\_retxp

any complication that led to re-txp	Freq.	Percent	Cum.
0	556	92.82	92.82
1	43	7.18	100.00
Total	599	100.00	

-> tabulation of r\_dead

any complication that led to death	Freq.	Percent	Cum.
0	550	91.82	91.82
1	49	8.18	100.00
Total	599	100.00	

-> tabulation of rmor\_bl\_bs

at least one bile complications	Freq.	Percent	Cum.
0	378	63.74	63.74
1	215	36.26	100.00
Total	593	100.00	

-> tabulation of rbl\_bs\_grade

clavien grade for combined bile complications	Freq.	Percent	Cum.
0	384	64.11	64.11
1	15	2.50	66.61
2	153	25.54	92.15
3	26	4.34	96.49
4	21	3.51	100.00
Total	599	100.00	

-> tabulation of rbl\_bs\_grade4

grade 4   bile   complicatio ns: 1=yes, 0=no	Freq.	Percent	Cum.
0	578	96.49	96.49
1	21	3.51	100.00
Total	599	100.00	

-> tabulation of rbl\_bs\_grade\_any

any grade   of bile   complicatio ns: 1=yes, 0=no	Freq.	Percent	Cum.
0	384	64.11	64.11
1	215	35.89	100.00
Total	599	100.00	

-> tabulation of rmor\_vscl

at least   one of   rmor_hat or rmor_pvt or rmor_ivct	Freq.	Percent	Cum.
0	555	92.65	92.65
1	44	7.35	100.00
Total	599	100.00	

-> tabulation of rvscl\_grade

clavien   grade for   combined   vascular   complicatio ns	Freq.	Percent	Cum.
0	555	92.65	92.65
2	17	2.84	95.49
3	1	0.17	95.66
4	26	4.34	100.00
Total	599	100.00	

-> tabulation of rvscl\_grade4

grade 4   combined   vascular   complicatio ns: 1=yes, 0=no	Freq.	Percent	Cum.
0	573	95.66	95.66

1	26	4.34	100.00
Total	599	100.00	

-> tabulation of rvscl\_grade\_any

any grade grade of combined vascular complicatio ns: 1=yes, 0=no	Freq.	Percent	Cum.
0	555	92.65	92.65
1	44	7.35	100.00
Total	599	100.00	

. tab recip\_case

srtr: case number at center for this ldlc	Freq.	Percent	Cum.
1	7	1.82	1.82
2	4	1.04	2.86
3	8	2.08	4.94
4	8	2.08	7.01
5	9	2.34	9.35
6	8	2.08	11.43
7	9	2.34	13.77
8	9	2.34	16.10
9	7	1.82	17.92
10	8	2.08	20.00
11	9	2.34	22.34
12	8	2.08	24.42
13	9	2.34	26.75
14	10	2.60	29.35
15	9	2.34	31.69
16	9	2.34	34.03
17	10	2.60	36.62
18	8	2.08	38.70
19	10	2.60	41.30
20	9	2.34	43.64
21	8	2.08	45.71
22	8	2.08	47.79
23	7	1.82	49.61
24	10	2.60	52.21
25	8	2.08	54.29
26	5	1.30	55.58
27	6	1.56	57.14
28	6	1.56	58.70
29	5	1.30	60.00
30	5	1.30	61.30
31	4	1.04	62.34
32	5	1.30	63.64
33	3	0.78	64.42
34	5	1.30	65.71
35	3	0.78	66.49
36	3	0.78	67.27
37	4	1.04	68.31
38	3	0.78	69.09

39		5	1.30	70.39
40		4	1.04	71.43
41		4	1.04	72.47
42		4	1.04	73.51
43		4	1.04	74.55
44		4	1.04	75.58
45		4	1.04	76.62
46		4	1.04	77.66
47		4	1.04	78.70
48		4	1.04	79.74
49		4	1.04	80.78
50		4	1.04	81.82
51		3	0.78	82.60
52		4	1.04	83.64
53		4	1.04	84.68
54		3	0.78	85.45
55		4	1.04	86.49
56		4	1.04	87.53
57		4	1.04	88.57
58		4	1.04	89.61
59		4	1.04	90.65
60		4	1.04	91.69
61		3	0.78	92.47
62		4	1.04	93.51
63		3	0.78	94.29
64		3	0.78	95.06
65		3	0.78	95.84
66		2	0.52	96.36
67		2	0.52	96.88
68		3	0.78	97.66
69		2	0.52	98.18
70		1	0.26	98.44
71		1	0.26	98.70
72		1	0.26	98.96
73		1	0.26	99.22
74		1	0.26	99.48
75		1	0.26	99.74
76		1	0.26	100.00
-----				
Total		385	100.00	

```
. gen tx_experience = recip_case
(214 missing values generated)
```

```
. recode tx_experience (1/20=0) (21/99=1)
(tx_experience: 385 changes made)
```

```
. tab recip_case tx_experience
```

```
srtr: case |
number at |
center for |      tx_experience
this ldlt |      0          1 |      Total
-----+-----+-----
```

1		7	0		7
2		4	0		4
3		8	0		8
4		8	0		8
5		9	0		9
6		8	0		8
7		9	0		9
8		9	0		9
9		7	0		7
10		8	0		8
11		9	0		9

12		8		0		8
13		9		0		9
14		10		0		10
15		9		0		9
16		9		0		9
17		10		0		10
18		8		0		8
19		10		0		10
20		9		0		9
21		0		8		8
22		0		8		8
23		0		7		7
24		0		10		10
25		0		8		8
26		0		5		5
27		0		6		6
28		0		6		6
29		0		5		5
30		0		5		5
31		0		4		4
32		0		5		5
33		0		3		3
34		0		5		5
35		0		3		3
36		0		3		3
37		0		4		4
38		0		3		3
39		0		5		5
40		0		4		4
41		0		4		4
42		0		4		4
43		0		4		4
44		0		4		4
45		0		4		4
46		0		4		4
47		0		4		4
48		0		4		4
49		0		4		4
50		0		4		4
51		0		3		3
52		0		4		4
53		0		4		4
54		0		3		3
55		0		4		4
56		0		4		4
57		0		4		4
58		0		4		4
59		0		4		4
60		0		4		4
61		0		3		3
62		0		4		4
63		0		3		3
64		0		3		3
65		0		3		3
66		0		2		2
67		0		2		2
68		0		3		3
69		0		2		2
70		0		1		1
71		0		1		1
72		0		1		1
73		0		1		1
74		0		1		1
75		0		1		1
76		0		1		1

```
-----+-----+-----
Total |      168      217 |      385
```

```
. tab ddlt ldlt
```

```
exclusion |
criterion |
  incl |
  dominoes | exclusion criterion
and splits |      0      1 |      Total
-----+-----+-----
0 |      0      383 |      383
1 |     216      0 |     216
-----+-----+-----
Total |     216     383 |     599
```

```
. replace tx_experience = 2 if ddlt==1
(216 real changes made)
```

```
. label define t3_labels 1">20 LD tx" 0"<=20 LD tx" 2"DDLTT"
```

```
. label values tx_experience t3_labels
```

```
. label var tx_experience "Experience of Transplant Center w/ LD transplants"
```

```
. tab tx_experience
```

```
Experience |
of |
Transplant |
Center w/ |
LD |
transplants |      Freq.      Percent      Cum.
-----+-----+-----
<=20 LD tx |      166      27.71      27.71
>20 LD tx |      217      36.23      63.94
DDLTT |      216      36.06     100.00
-----+-----+-----
Total |      599     100.00
```

```
. tab r_tot_comp
```

```
number of |
complicatio |
ns |
(including |
comp. that |
can be |
graded and |
those that |
cannot |      Freq.      Percent      Cum.
-----+-----+-----
0 |      104      17.36      17.36
1 |      97      16.19      33.56
2 |      97      16.19      49.75
3 |      64      10.68      60.43
4 |      52      8.68      69.12
5 |      42      7.01      76.13
6 |      26      4.34      80.47
7 |      31      5.18      85.64
8 |      20      3.34      88.98
```

9	20	3.34	92.32
10	16	2.67	94.99
11	13	2.17	97.16
12	7	1.17	98.33
13	4	0.67	99.00
14	2	0.33	99.33
15	2	0.33	99.67
16	2	0.33	100.00
-----			
Total	599	100.00	

```
. gen r_tot_comp2 = r_tot_comp
. recode r_tot_comp2 (10/16=10)
(r_tot_comp2: 30 changes made)
. label var r_tot_comp2 "Total Complications -- 10 = 10+"
. tab r_tot_comp2 tx_experience, col
```

```
+-----+
| Key |
|-----|
| frequency |
| column percentage |
+-----+
```

Total Complications -- 10 = 10+	Experience of Transplant Center w/ LD transplants			Total
	<=20 LD t	>20 LD tx	DDLT	
0	14	47	43	104
	8.43	21.66	19.91	17.36
1	21	37	39	97
	12.65	17.05	18.06	16.19
2	28	33	36	97
	16.87	15.21	16.67	16.19
3	18	24	22	64
	10.84	11.06	10.19	10.68
4	14	15	23	52
	8.43	6.91	10.65	8.68
5	14	17	11	42
	8.43	7.83	5.09	7.01
6	11	11	4	26
	6.63	5.07	1.85	4.34
7	15	7	9	31
	9.04	3.23	4.17	5.18
8	7	7	6	20
	4.22	3.23	2.78	3.34
9	8	7	5	20
	4.82	3.23	2.31	3.34
10	16	12	18	46
	9.64	5.53	8.33	7.68



Total	166	217	216	599
	100.00	100.00	100.00	100.00

```
. tab rmor_abld tx_experience , col missing
```

```
+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+
```

30697:		Experience of Transplant Center			Total
intra-abdo		w/ LD transplants			
minal					
bleeding-a					
series of					
bleeds					
over					
several					
days					
without					
ful		<=20 LD t	>20 LD tx	DDLT	
		2	2	6	10
		1.20	0.92	2.78	1.67
1		13	14	18	45
		7.83	6.45	8.33	7.51
2		151	201	192	544
		90.96	92.63	88.89	90.82
Total		166	217	216	599
		100.00	100.00	100.00	100.00

```
. tab rmor_abscess tx_experience , col missing
```

```
+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+
```

30704:		Experience of Transplant Center			Total
localized		w/ LD transplants			
intra-abdo					
minal					
abscesses					
that were					
treated					
with					
antibiotic					
s, s		<=20 LD t	>20 LD tx	DDLT	
		4	5	8	17
		2.41	2.30	3.70	2.84
1		17	17	11	45
		10.24	7.83	5.09	7.51

2	145	195	197	537
	87.35	89.86	91.20	89.65
Total	166	217	216	599
	100.00	100.00	100.00	100.00

. tab rmor\_ascites tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

30733:				
post				
operative				
ascites.				
answer yes				
if ascites				
was				
treated   Experience of Transplant Center				
with   w/ LD transplants				
diuretics	<=20 LD t	>20 LD tx	DDLT	Total
	1	1	3	5
	0.60	0.46	1.39	0.83
1	35	20	37	92
	21.08	9.22	17.13	15.36
2	130	196	176	502
	78.31	90.32	81.48	83.81
Total	166	217	216	599
	100.00	100.00	100.00	100.00

. tab rmor\_aspir tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

30724:				
aspiration				
-sudden				
respirator				
y distress				
that				
required   Experience of Transplant Center				
intubation   w/ LD transplants				
, associat	<=20 LD t	>20 LD tx	DDLT	Total
	1	3	3	7
	0.60	1.38	1.39	1.17
1	5	3	4	12
	3.01	1.38	1.85	2.00

2	160	211	209	580
	96.39	97.24	96.76	96.83
-----				
Total	166	217	216	599
	100.00	100.00	100.00	100.00

. tab rmor\_bbile tx\_experience , col missing

```

+-----+
| Key          |
+-----+
| frequency    |
| column percentage |
+-----+

```

30744:   Experience of Transplant Center				
bacterial	w/ LD transplants			Total
bile duct	<=20 LD t	>20 LD tx	DDLT	
	147	199	208	554
	88.55	91.71	96.30	92.49
-----				
1	19	18	8	45
	11.45	8.29	3.70	7.51
-----				
Total	166	217	216	599
	100.00	100.00	100.00	100.00

. gen any\_biliary = 0

. replace any\_biliary = 1 if rmor\_bbile == "1"  
(144 real changes made)

. replace any\_biliary = 1 if rmor\_strict == "1"  
(71 real changes made)

. tab any\_biliary tx\_experience , col

```

+-----+
| Key          |
+-----+
| frequency    |
| column percentage |
+-----+

```

any_biliar   Experience of Transplant Center				
y	w/ LD transplants			Total
	<=20 LD t	>20 LD tx	DDLT	
0	82	139	163	384
	49.40	64.06	75.46	64.11
-----				
1	84	78	53	215
	50.60	35.94	24.54	35.89
-----				
Total	166	217	216	599
	100.00	100.00	100.00	100.00

. tab rmor\_bbile tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

```

30695: |
bile |
leak/bilom |
a-presence |
of |
persistent |
bilious |
drainage | Experience of Transplant Center
beyond 7 | w/ LD transplants
days po | <=20 LD t >20 LD tx DDLT | Total
+-----+
| 1 | 1 1 3 | 5
| 0.60 0.46 1.39 | 0.83
+-----+
| 1 | 63 59 22 | 144
| 37.95 27.19 10.19 | 24.04
+-----+
| 2 | 102 157 191 | 450
| 61.45 72.35 88.43 | 75.13
+-----+
| Total | 166 217 216 | 599
| 100.00 100.00 100.00 | 100.00

```

```

. tab rmor_strict tx_experience , col missing

```

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

```

30696: |
biliary |
stricture- |
presence |
of |
narrowing |
of the |
intrahepat | Experience of Transplant Center
ic or | w/ LD transplants
extrahepat | <=20 LD t >20 LD tx DDLT | Total
+-----+
| 1 | 1 4 4 | 9
| 0.60 1.84 1.85 | 1.50
+-----+
| 1 | 36 40 35 | 111
| 21.69 18.43 16.20 | 18.53
+-----+
| 2 | 129 173 177 | 479
| 77.71 79.72 81.94 | 79.97
+-----+
| Total | 166 217 216 | 599
| 100.00 100.00 100.00 | 100.00

```

. tab rmor\_bblood tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

30745:   Experience of Transplant Center				
bacterial	w/ LD transplants			
blood	<=20 LD t	>20 LD tx	DDLT	Total
	128	184	184	496
	77.11	84.79	85.19	82.80
1	38	33	32	103
	22.89	15.21	14.81	17.20
Total	166	217	216	599
	100.00	100.00	100.00	100.00

. tab rmor\_bcns tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

30748:   Experience of Transplant Center				
bacterial	w/ LD transplants			
cns	<=20 LD t	>20 LD tx	DDLT	Total
	165	216	216	597
	99.40	99.54	100.00	99.67
1	1	1	0	2
	0.60	0.46	0.00	0.33
Total	166	217	216	599
	100.00	100.00	100.00	100.00

. tab rmor\_bliv tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

30746:   Experience of Transplant Center				
bacterial	w/ LD transplants			
liver	<=20 LD t	>20 LD tx	DDLT	Total
	159	213	214	586
	95.78	98.16	99.07	97.83
1	7	4	2	13
	4.22	1.84	0.93	2.17

Total	166	217	216	599
	100.00	100.00	100.00	100.00

```
. tab rmor_bl_bs tx_experience , col missing
```

```
+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+
```

at least one bile complications	Experience of Transplant Center w/ LD transplants			Total
	<=20 LD t	>20 LD tx	DDLT	
0	81 48.80	137 63.13	160 74.07	378 63.11
1	84 50.60	78 35.94	53 24.54	215 35.89
.	1 0.60	2 0.92	3 1.39	6 1.00
Total	166 100.00	217 100.00	216 100.00	599 100.00

```
. tab rmor_bowel tx_experience , col missing
```

```
+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+
```

30707: obstruction documented by imaging study or identified at re-explora	Experience of Transplant Center w/ LD transplants			Total
	<=20 LD t	>20 LD tx	DDLT	
	2 1.20	6 2.76	5 2.31	13 2.17
1	9 5.42	5 2.30	4 1.85	18 3.01
2	155 93.37	206 94.93	207 95.83	568 94.82
Total	166 100.00	217 100.00	216 100.00	599 100.00

```
. tab rmor_bpulm tx_experience , col missing
```

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

```

30747: | Experience of Transplant Center
bacterial | w/ LD transplants
pulmonary | <=20 LD t >20 LD tx DDLT | Total
+-----+-----+-----+-----+
| 149 199 193 | 541
| 89.76 91.71 89.35 | 90.32
+-----+-----+-----+-----+
1 | 17 18 23 | 58
| 10.24 8.29 10.65 | 9.68
+-----+-----+-----+-----+
Total | 166 217 216 | 599
| 100.00 100.00 100.00 | 100.00

```

```
. tab rmor_buti tx_experience , col missing
```

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

```

30749: |
bacterial | Experience of Transplant Center
urinary | w/ LD transplants
tract | <=20 LD t >20 LD tx DDLT | Total
+-----+-----+-----+-----+
| 144 201 191 | 536
| 86.75 92.63 88.43 | 89.48
+-----+-----+-----+-----+
1 | 22 16 25 | 63
| 13.25 7.37 11.57 | 10.52
+-----+-----+-----+-----+
Total | 166 217 216 | 599
| 100.00 100.00 100.00 | 100.00

```

```
. tab rmor_bwound tx_experience , col missing
```

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

```

30743: | Experience of Transplant Center
bacterial | w/ LD transplants
wound | <=20 LD t >20 LD tx DDLT | Total
+-----+-----+-----+-----+
| 145 196 193 | 534
| 87.35 90.32 89.35 | 89.15
+-----+-----+-----+-----+
1 | 21 21 23 | 65
| 12.65 9.68 10.65 | 10.85
+-----+-----+-----+-----+
Total | 166 217 216 | 599

```

| 100.00 100.00 100.00 | 100.00

. tab rmor\_chf tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

30712:					
congestive					
heart					
failure					
post-trans					
plant					
during the   Experience of Transplant Center					
perioperat   w/ LD transplants					
ive period   <=20 LD t >20 LD tx DDLT   Total					
		1	1	5	7
		0.60	0.46	2.31	1.17
1		2	0	2	4
		1.20	0.00	0.93	0.67
2		163	216	209	588
		98.19	99.54	96.76	98.16
Total		166	217	216	599
		100.00	100.00	100.00	100.00

. tab rmor\_cpr tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

30720:					
cardiopulm					
onary					
arrest-ces					
sation of					
patients					
heartbeat					
and   Experience of Transplant Center					
breathing.   w/ LD transplants					
an   <=20 LD t >20 LD tx DDLT   Total					
		2	3	3	8
		1.20	1.38	1.39	1.34
1		5	3	9	17
		3.01	1.38	4.17	2.84
2		159	211	204	574
		95.78	97.24	94.44	95.83
Total		166	217	216	599



| 100.00 100.00 100.00 | 100.00

. tab rmor\_cr tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

30737: |

histologic |

al |

evidence |

of chronic |

rejection. |

does not | Experience of Transplant Center

have to be | w/ LD transplants

treated | <=20 LD t >20 LD tx DDLT | Total

---

	<=20 LD t	>20 LD tx	DDLT	Total
	1	1	3	5
	0.60	0.46	1.39	0.83
1	8	12	13	33
	4.82	5.53	6.02	5.51
2	157	204	200	561
	94.58	94.01	92.59	93.66
Total	166	217	216	599
	100.00	100.00	100.00	100.00

. tab rmor\_dehisc tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

30728: |

dehiscence |

-abrupt |

release of |

sutures/st |

aples |

causing | Experience of Transplant Center

the wound | w/ LD transplants

to open | <=20 LD t >20 LD tx DDLT | Total

---

	<=20 LD t	>20 LD tx	DDLT	Total
	2	1	3	6
	1.20	0.46	1.39	1.00
1	5	5	7	17
	3.01	2.30	3.24	2.84
2	159	211	206	576
	95.78	97.24	95.37	96.16
Total	166	217	216	599
	100.00	100.00	100.00	100.00

. tab rmor\_dvt tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

30740:				
deep vein				
thrombosis				
-treated				
with   Experience of Transplant Center				
anticoagul   w/ LD transplants				
ants	<=20 LD t	>20 LD tx	DDLT	Total
	2	3	4	9
	1.20	1.38	1.85	1.50
1	2	2	5	9
	1.20	0.92	2.31	1.50
2	162	212	207	581
	97.59	97.70	95.83	96.99
Total	166	217	216	599
	100.00	100.00	100.00	100.00

. tab rmor\_enceph tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

30732:				
encephalop				
athy/hepat				
ic				
coma-post-				
operative				
liver-indu				
ced   Experience of Transplant Center				
altered   w/ LD transplants				
mental s	<=20 LD t	>20 LD tx	DDLT	Total
	2	2	3	7
	1.20	0.92	1.39	1.17
1	9	9	22	40
	5.42	4.15	10.19	6.68
2	155	206	191	552
	93.37	94.93	88.43	92.15
Total	166	217	216	599
	100.00	100.00	100.00	100.00

. tab rmor\_fbile tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

```

30758: | Experience of Transplant Center
fungals | w/ LD transplants
bile duct | <=20 LD t >20 LD tx DDLT | Total
+-----+
| 166 215 216 | 597
| 100.00 99.08 100.00 | 99.67
+-----+
1 | 0 2 0 | 2
| 0.00 0.92 0.00 | 0.33
+-----+
Total | 166 217 216 | 599
| 100.00 100.00 100.00 | 100.00

```

```
. tab rmor_fblood tx_experience , col missing
```

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

```

30759: | Experience of Transplant Center
fungals | w/ LD transplants
blood | <=20 LD t >20 LD tx DDLT | Total
+-----+
| 158 215 208 | 581
| 95.18 99.08 96.30 | 96.99
+-----+
1 | 8 2 8 | 18
| 4.82 0.92 3.70 | 3.01
+-----+
Total | 166 217 216 | 599
| 100.00 100.00 100.00 | 100.00

```

```
. tab rmor_fcns tx_experience , col missing
```

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

```

30762: | Experience of Transplant Center
fungals | w/ LD transplants
cns | <=20 LD t >20 LD tx DDLT | Total
+-----+
| 163 216 216 | 595
| 98.19 99.54 100.00 | 99.33
+-----+
1 | 3 1 0 | 4
| 1.81 0.46 0.00 | 0.67
+-----+
Total | 166 217 216 | 599
| 100.00 100.00 100.00 | 100.00

```

. tab rmor\_fliv tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

30760:   Experience of Transplant Center				
fungal   w/ LD transplants				
liver	<=20 LD t	>20 LD tx	DDLT	Total
	162	216	216	594
	97.59	99.54	100.00	99.17
1	4	1	0	5
	2.41	0.46	0.00	0.83
Total	166	217	216	599
	100.00	100.00	100.00	100.00

. tab rmor\_fpulm tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

30761:   Experience of Transplant Center				
fungal   w/ LD transplants				
pulmonary	<=20 LD t	>20 LD tx	DDLT	Total
	160	216	202	578
	96.39	99.54	93.52	96.49
1	6	1	14	21
	3.61	0.46	6.48	3.51
Total	166	217	216	599
	100.00	100.00	100.00	100.00

. tab rmor\_futi tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

30763:				
fungal   Experience of Transplant Center				
urinary   w/ LD transplants				
tract	<=20 LD t	>20 LD tx	DDLT	Total
	164	212	203	579
	98.80	97.70	93.98	96.66
1	2	5	13	20

	1.20	2.30	6.02	3.34
Total	166	217	216	599
	100.00	100.00	100.00	100.00

. tab rmor\_fwound tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

30757: Experience of Transplant Center				
fungal w/ LD transplants				
wound	<=20 LD t	>20 LD tx	DDLT	Total
	160	215	213	588
	96.39	99.08	98.61	98.16
1	6	2	3	11
	3.61	0.92	1.39	1.84
Total	166	217	216	599
	100.00	100.00	100.00	100.00

. tab rmor\_gibld tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

30699: Experience of Transplant Center				
upper/lower gastrointestinal bleeding-a series of bleeds over several days without full				
	<=20 LD t	>20 LD tx	DDLT	Total
	5	3	5	13
	3.01	1.38	2.31	2.17
1	14	14	5	33
	8.43	6.45	2.31	5.51
2	2	4	3	9
	1.20	1.84	1.39	1.50
3	145	196	203	544
	87.35	90.32	93.98	90.82
Total	166	217	216	599
	100.00	100.00	100.00	100.00

```
. tab rmor_hat tx_experience , col missing
```

```
+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+
```

```
30734: |
hepatic | Experience of Transplant Center
artery | w/ LD transplants
thrombosis | <=20 LD t >20 LD tx DDLT | Total
```

	<=20 LD t	>20 LD tx	DDLT	Total
	1	2	4	7
	0.60	0.92	1.85	1.17
1	14	11	5	30
	8.43	5.07	2.31	5.01
2	151	204	207	562
	90.96	94.01	95.83	93.82
Total	166	217	216	599
	100.00	100.00	100.00	100.00

```
. tab rmor_hernia tx_experience , col missing
```

```
+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+
```

```
30730: |
post-op |
hernia | Experience of Transplant Center
developmen | w/ LD transplants
t | <=20 LD t >20 LD tx DDLT | Total
```

	<=20 LD t	>20 LD tx	DDLT	Total
	2	1	2	5
	1.20	0.46	0.93	0.83
1	22	25	22	69
	13.25	11.52	10.19	11.52
2	142	191	192	525
	85.54	88.02	88.89	87.65
Total	166	217	216	599
	100.00	100.00	100.00	100.00

```
. tab rmor_ileus tx_experience , col missing
```

```
+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+
```

```

30705: |
prolonged |
ileus-a |
delay in |
return of |
bowel |
function |
beyond 7 | Experience of Transplant Center
days | w/ LD transplants
post-op | <=20 LD t >20 LD tx DDLT | Total
-----+-----+-----+-----+-----+
| | 2 | 3 | 4 | | 9
| | 1.20 | 1.38 | 1.85 | | 1.50
-----+-----+-----+-----+
1 | | 5 | 11 | 10 | | 26
| | 3.01 | 5.07 | 4.63 | | 4.34
-----+-----+-----+-----+
2 | | 159 | 203 | 202 | | 564
| | 95.78 | 93.55 | 93.52 | | 94.16
-----+-----+-----+-----+
Total | | 166 | 217 | 216 | | 599
| | 100.00 | 100.00 | 100.00 | | 100.00

```

. tab rmor\_infect tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

```

30742: |
post |
operative |
infection( |
s) |
requiring | Experience of Transplant Center
interventi | w/ LD transplants
on | <=20 LD t >20 LD tx DDLT | Total
-----+-----+-----+-----+
| | 1 | 2 | 3 | | 6
| | 0.60 | 0.92 | 1.39 | | 1.00
-----+-----+-----+-----+
1 | | 80 | 76 | 77 | | 233
| | 48.19 | 35.02 | 35.65 | | 38.90
-----+-----+-----+-----+
2 | | 85 | 139 | 136 | | 360
| | 51.20 | 64.06 | 62.96 | | 60.10
-----+-----+-----+-----+
Total | | 166 | 217 | 216 | | 599
| | 100.00 | 100.00 | 100.00 | | 100.00

```

. tab rmor\_ivct tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

30736: |

	Experience of Transplant Center w/ LD transplants				
	<=20 LD t	>20 LD tx	DDLT		Total
	1	3	3		7
	0.60	1.38	1.39		1.17
1	0	3	4		7
	0.00	1.38	1.85		1.17
2	165	211	209		585
	99.40	97.24	96.76		97.66
Total	166	217	216		599
	100.00	100.00	100.00		100.00

. tab rmor\_mi tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

30710: |

myocardial |

infarction |

post-donat |

ion during |

	Experience of Transplant Center w/ LD transplants				
	<=20 LD t	>20 LD tx	DDLT		Total
	1	2	4		7
	0.60	0.92	1.85		1.17
1	1	2	1		4
	0.60	0.92	0.46		0.67
2	164	213	211		588
	98.80	98.16	97.69		98.16
Total	166	217	216		599
	100.00	100.00	100.00		100.00

. tab rmor\_neuraprax tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

30741: |

neuropraxi |

a-experien |

ce sensory |

or motor |

peripheral |

nerve |

dysfunctio |

	Experience of Transplant Center w/ LD transplants				
--	--	--	--	--	--



n that	<=20 LD t	>20 LD tx	DDLT	Total
	2	2	5	9
	1.20	0.92	2.31	1.50
1	3	4	5	12
	1.81	1.84	2.31	2.00
2	161	211	206	578
	96.99	97.24	95.37	96.49
Total	166	217	216	599
	100.00	100.00	100.00	100.00

. tab rmor\_other tx\_experience , col missing

```
+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+
```

30765: |

other complicati ons	Experience of Transplant Center w/ LD transplants			Total
	<=20 LD t	>20 LD tx	DDLT	
	3	3	5	11
	1.81	1.38	2.31	1.84
1	49	61	53	163
	29.52	28.11	24.54	27.21
2	114	153	158	425
	68.67	70.51	73.15	70.95
Total	166	217	216	599
	100.00	100.00	100.00	100.00

. tab rmor\_pe tx\_experience , col missing

```
+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+
```

30726: |

pulmonary embolism-s udden onset of dyspnea associated with tachypnea and	Experience of Transplant Center w/ LD transplants			Total
	<=20 LD t	>20 LD tx	DDLT	
	2	2	3	7
	1.20	0.92	1.39	1.17

1	1	1	0	2
	0.60	0.46	0.00	0.33
2	163	214	213	590
	98.19	98.62	98.61	98.50
Total	166	217	216	599
	100.00	100.00	100.00	100.00

. tab rmor\_pedem tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

30718: |

pulmonary |

edema-accu |

mulations |

of fluid |

in the |

interstiti | Experience of Transplant Center

al lung | w/ LD transplants

tissues, | <=20 LD t >20 LD tx DDLT | Total

	1	3	3	7
	0.60	1.38	1.39	1.17
1	24	23	47	94
	14.46	10.60	21.76	15.69
2	141	191	166	498
	84.94	88.02	76.85	83.14
Total	166	217	216	599
	100.00	100.00	100.00	100.00

. tab rmor\_pleur tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

30716: |

pleural |

effusion |

requiring |

either |

chest tube |

placement |

or | Experience of Transplant Center

thoracocen | w/ LD transplants

tesis | <=20 LD t >20 LD tx DDLT | Total

	2	1	3	6
	1.20	0.46	1.39	1.00

1	37	41	46	124
	22.29	18.89	21.30	20.70
2	127	175	167	469
	76.51	80.65	77.31	78.30
Total	166	217	216	599
	100.00	100.00	100.00	100.00

. tab rmor\_pneumo tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

30714: |

pneumothorax requiring placement of a chest tube | Experience of Transplant Center w/ LD transplants

	<=20 LD t	>20 LD tx	DDLT	Total
	6	2	4	12
	3.61	0.92	1.85	2.00
1	5	0	5	10
	3.01	0.00	2.31	1.67
2	155	215	207	577
	93.37	99.08	95.83	96.33
Total	166	217	216	599
	100.00	100.00	100.00	100.00

. tab rmor\_pvt tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

30735: |

portal vein thrombosis | Experience of Transplant Center w/ LD transplants

	<=20 LD t	>20 LD tx	DDLT	Total
	4	2	4	10
	2.41	0.92	1.85	1.67
1	7	4	0	11
	4.22	1.84	0.00	1.84
2	155	211	212	578
	93.37	97.24	98.15	96.49
Total	166	217	216	599
	100.00	100.00	100.00	100.00

. tab rmor\_recur tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

30738:					
recurrence					
of					
original					
liver					
disease-ex					
cluding   Experience of Transplant Center					
hcv and   w/ LD transplants					
hcc   <=20 LD t >20 LD tx DDLT   Total					
-----					
		1	4	4	9
		0.60	1.84	1.85	1.50
-----					
1		9	11	3	23
		5.42	5.07	1.39	3.84
-----					
2		156	202	209	567
		93.98	93.09	96.76	94.66
-----					
Total		166	217	216	599
		100.00	100.00	100.00	100.00

. tab rmor\_reexplore tx\_experience , col missing

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

30708:					
re-explora					
tion-unpla					
nned					
return to					
the					
operating					
room   Experience of Transplant Center					
following   w/ LD transplants					
the trans   <=20 LD t >20 LD tx DDLT   Total					
-----					
		3	2	5	10
		1.81	0.92	2.31	1.67
-----					
1		56	40	33	129
		33.73	18.43	15.28	21.54
-----					
2		4	2	5	11
		2.41	0.92	2.31	1.84
-----					
3		103	173	173	449
		62.05	79.72	80.09	74.96
-----					

Total	166	217	216	599
	100.00	100.00	100.00	100.00

```
. tab rmor_resp tx_experience , col missing
```

```
+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+
```

```
30722: |
respirator |
y |
arrest-req |
uiring |
intubation |
and not |
accompanie | Experience of Transplant Center
d by | w/ LD transplants
cardiac ar | <=20 LD t >20 LD tx DDLT | Total
-----+-----+-----+-----+
| 1 | 1 6 5 | 12
| 0.60 2.76 2.31 | 2.00
-----+-----+-----+-----+
| 1 | 4 8 15 | 27
| 2.41 3.69 6.94 | 4.51
-----+-----+-----+-----+
| 2 | 161 203 196 | 560
| 96.99 93.55 90.74 | 93.49
-----+-----+-----+-----+
| Total | 166 217 216 | 599
| 100.00 100.00 100.00 | 100.00
```

```
. gen rmor_reexplore_collapsed = rmor_reexplore
(10 missing values generated)
```

```
. replace rmor_reexplore_collapsed = "1" if rmor_reexplore_collapsed=="2"
(11 real changes made)
```

```
. tab rmor_reexplore_collapsed tx_experience , col missing
```

```
+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+
```

```
rmor_reexp | Experience of Transplant Center
lore_colla | w/ LD transplants
psed | <=20 LD t >20 LD tx DDLT | Total
-----+-----+-----+-----+
| 3 | 3 2 5 | 10
| 1.81 0.92 2.31 | 1.67
-----+-----+-----+-----+
| 1 | 60 42 38 | 140
| 36.14 19.35 17.59 | 23.37
-----+-----+-----+-----+
| 3 | 103 173 173 | 449
| 62.05 79.72 80.09 | 74.96
```

Total	166	217	216	599
	100.00	100.00	100.00	100.00

```
. gen rmor_gibld_collapsed = rmor_gibld
(13 missing values generated)
```

```
. replace rmor_gibld_collapsed = "1" if rmor_gibld_collapsed=="2"
(9 real changes made)
```

```
. tab rmor_gibld_collapsed tx_experience , col missing
```

```
+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+
```

rmor_gibld_collapsed	Experience of Transplant Center w/ LD transplants			Total
	<=20 LD t	>20 LD tx	DDLT	
	5	3	5	13
	3.01	1.38	2.31	2.17
1	16	18	8	42
	9.64	8.29	3.70	7.01
3	145	196	203	544
	87.35	90.32	93.98	90.82
Total	166	217	216	599
	100.00	100.00	100.00	100.00

```
. tab r_any_bacte tx_experience , col missing
```

```
+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+
```

pts with at least one bacterial infection	Experience of Transplant Center w/ LD transplants			Total
	<=20 LD t	>20 LD tx	DDLT	
0	97	142	144	383
	58.43	65.44	66.67	63.94
1	69	75	72	216
	41.57	34.56	33.33	36.06
Total	166	217	216	599
	100.00	100.00	100.00	100.00

```
. tab r_any_viral tx_experience , col missing
```

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

```

pts with |
at least | Experience of Transplant Center
one viral | w/ LD transplants
infection | <=20 LD t >20 LD tx DDLT | Total
+-----+-----+-----+-----+
0 | 159 211 202 | 572
| 95.78 97.24 93.52 | 95.49
+-----+-----+-----+-----+
1 | 7 6 14 | 27
| 4.22 2.76 6.48 | 4.51
+-----+-----+-----+-----+
Total | 166 217 216 | 599
| 100.00 100.00 100.00 | 100.00

```

```

. tab r_any_fungal tx_experience , col missing

```

```

+-----+
| Key |
+-----+
| frequency |
| column percentage |
+-----+

```

```

pts with |
at least | Experience of Transplant Center
one fungal | w/ LD transplants
infection | <=20 LD t >20 LD tx DDLT | Total
+-----+-----+-----+-----+
0 | 144 204 191 | 539
| 86.75 94.01 88.43 | 89.98
+-----+-----+-----+-----+
1 | 22 13 25 | 60
| 13.25 5.99 11.57 | 10.02
+-----+-----+-----+-----+
Total | 166 217 216 | 599
| 100.00 100.00 100.00 | 100.00

```

```

.
. * tab recip_dgn_ahn_txp tx_experience , col missing
. * AHN (acute hepatic necrosis) generated by June 2nd code from Tempie
.
.
end of do-file

. exit, clear

```

```
-----
name: <unnamed>
log: C:\A2ALL_Files_No_Data_MASTER\NEW_Oct_2010\DSIC_Donor_Table_1b.log
log type: text
opened on: 19 Oct 2010, 10:44:58
```

. pause on

. set more off

```
.
. * gen rawdate = don_hp_date
. * sort rawdate
. * tab rawdate
. * list rawdate don_hp_date in 1/10
. * drop if rawdate > 15762
. * tab don_hp_date in 1/10
. * generate group = (10*ddlt) + ldlt
. * recode group ( 0 = .)
. * label define group 10"DDLTT" 1"LDLTT"
. * label values group group
.
. * DROP if date of surgery is missing, i.e., no transplant
. drop if dio_surgery == .
(607 observations deleted)
.
. * DROP if date of evaluation after Feb 28, 2003 (day = 15762)
. generate rawdate = dnr_eval_date
. sort rawdate
. list dnr_eval_date rawdate in 1/10
```

	dnr_eval_date	rawdate
1.	11 Feb 98	13921
2.	01 Apr 98	13970
3.	18 Apr 98	13987
4.	28 May 98	14027
5.	05 Jun 98	14035
6.	08 Jun 98	14038
7.	23 Jun 98	14053
8.	30 Aug 98	14121
9.	04 Sep 98	14126
10.	04 Sep 98	14126

. list dnr\_eval\_date rawdate in 310/320

	dnr_eval_date	rawdate
310.	03 Jan 02	15343
311.	04 Jan 02	15344
312.	09 Jan 02	15349
313.	22 Jan 02	15362
314.	24 Jan 02	15364
315.	25 Jan 02	15365



```

316. | 28 Jan 02      15368 |
317. | 30 Jan 02      15370 |
318. | 30 Jan 02      15370 |
319. | 13 Feb 02      15384 |
    |-----|
320. | 25 Feb 02      15396 |
    +-----+

```

```

. drop if rawdate == .
(0 observations deleted)

```

```

. * list dnr_eval_date rawdate
. * tab rawdate
. drop if rawdate > 15763
(1 observation deleted)

```

```

. summarize rawdate

```

Variable	Obs	Mean	Std. Dev.	Min	Max
rawdate	403	14981.33	443.2636	13921	15760

```

. * pause

```

```

. gen year_transplant = yofd(dio_surgery)

```

```

. gen year_birth = enr_yob

```

```

. gen age_at_transplant = year_transplant - year_birth

```

```

. list enr_yob dio_surgery age_at_transplant in 1/10

```

```

+-----+
| enr_yob  dio_sur~y  age_at~t |
+-----+
1. |    1959   28 May 98      39 |
2. |    1960   02 Sep 98      38 |
3. |    1972   19 Apr 98      26 |
4. |    1957   08 Jul 98      41 |
5. |    1948   22 Jun 98      50 |
+-----+
6. |    1947   17 Jun 98      51 |
7. |    1972   29 Jul 98      26 |
8. |    1970   20 Nov 98      28 |
9. |    1943   16 Dec 98      55 |
10. |    1971   02 Nov 98      27 |
+-----+

```

```

. list enr_yob dio_surgery age_at_transplant in 250/260

```

```

+-----+
| enr_yob  dio_sur~y  age_at~t |
+-----+
250. |    1975   28 Aug 01      26 |
251. |    1964   24 Sep 01      37 |
252. |    1951   31 Aug 01      50 |
253. |    1967   01 Oct 01      34 |
254. |    1950   12 Sep 01      51 |
+-----+
255. |    1976   24 Aug 01      25 |
256. |    1962   12 Oct 01      39 |
257. |    1951   10 Dec 01      50 |

```

```

258. | 1955 23 Oct 01 46 |
259. | 1965 19 Sep 01 36 |
-----+-----
260. | 1967 04 Sep 01 34 |
-----+-----

```

```
. tab age_at_transplant, missing
```

age_at_transplant	Freq.	Percent	Cum.
18	2	0.50	0.50
19	5	1.24	1.74
20	3	0.74	2.48
21	5	1.24	3.72
22	9	2.23	5.96
23	12	2.98	8.93
24	16	3.97	12.90
25	6	1.49	14.39
26	14	3.47	17.87
27	12	2.98	20.84
28	10	2.48	23.33
29	13	3.23	26.55
30	13	3.23	29.78
31	13	3.23	33.00
32	13	3.23	36.23
33	6	1.49	37.72
34	9	2.23	39.95
35	12	2.98	42.93
36	22	5.46	48.39
37	14	3.47	51.86
38	14	3.47	55.33
39	13	3.23	58.56
40	14	3.47	62.03
41	21	5.21	67.25
42	8	1.99	69.23
43	8	1.99	71.22
44	15	3.72	74.94
45	16	3.97	78.91
46	11	2.73	81.64
47	7	1.74	83.37
48	10	2.48	85.86
49	7	1.74	87.59
50	11	2.73	90.32
51	11	2.73	93.05
52	10	2.48	95.53
53	4	0.99	96.53
54	4	0.99	97.52
55	7	1.74	99.26
56	1	0.25	99.50
57	1	0.25	99.75
59	1	0.25	100.00
Total	403	100.00	

```
. summarize age_at_transplant
```

Variable	Obs	Mean	Std. Dev.	Min	Max
age_at_transplant	403	36.93797	9.618009	18	59

```
. tab dio_hypotn
```

```

30609: |
hypotension |
(<100 mm |
hg) during |
the surgery |

```

	Freq.	Percent	Cum.
1	88	22.92	22.92
2	296	77.08	100.00
<b>Total</b>	<b>384</b>	<b>100.00</b>	

```

. recode dio_bilert (0=.) (3/5=3)
(dio_bilert: 3 changes made)

```

```

. tab dio_bilert, missing

```

```

30605: |
number of |
bile ducts |
from right |
lobe |

```

	Freq.	Percent	Cum.
1	211	52.36	52.36
2	137	34.00	86.35
3	23	5.71	92.06
.	32	7.94	100.00
<b>Total</b>	<b>403</b>	<b>100.00</b>	

```

.
end of do-file

```

```

. log close
name: <unnamed>
log: C:\A2ALL_Files_No_Data_MASTER\NEW_Oct_2010\DSIC_Donor_Table_1b.log
log type: text
closed on: 19 Oct 2010, 10:46:04

```